Paper 16

Advanced Financial Accounting & Reporting

Question 1

How would you deal with the following in the annual accounts of a company for the year ended 31st March, 2012?

- (a) The company has to pay delayed jute clearing charges over and above the negotiated price for taking delayed delivery of jute from the Suppliers' Godown. Upto 2009-10, the company has regularly included such charges in the valuation of closing stock. This being in the nature of interest the company has decided to exclude it from closing stock valuation for the year 2010-11. This would result into decrease in profit by ₹ 2.8 lakhs.
- (b) The company has obtained Institutional Term Loan of ₹ 700 lakhs for modernisation and renovation of its Plant & Machinery. Plant & Machinery acquired under the modernisation scheme and installation completed on 31st March, 2011 amounted to ₹ 600 lakhs, ₹ 70 lakhs has been advanced to suppliers for additional assets and the balance loan of ₹ 30 lakhs has been utilised for working capital purpose. The Accountant is on a dilemma as to how to account for the total interest of ₹ 63.00 lakhs incurred during 2010-11 on the entire Institutional Term Loan of ₹ 700 lakhs.

Answer

(a) Para 29 of AS 5 (Revised) 'Net Profit or Loss for the Period, Prior Period Items and Changes in Accounting Policies" states that a change in an accounting policy should be made only if the adoption of a different accounting policy is required by statute or for compliance with an accounting standard or if it is considered that the change would result in a more appropriate presentation of the financial statements of an enterprise. Therefore the change in the method of stock valuation is justified in view of the fact that the change is in line with the recommendations of AS 2 (Revised) 'Valuation of Inventories' and would result in more appropriate preparation of the financial statements. As per AS 2, this accounting policy adopted for valuation of inventories including the cost formulae used should be disclosed in the financial statements.

Also, appropriate disclosure of the change and the amount by which any item in the financial statements is affected by such change is necessary as per AS 1, AS 2 and AS 5. Therefore, the under mentioned note should be given in the annual accounts.

"In compliance with the Accounting Standards issued by the ICAI, delayed jute clearing charges which are in the nature of interest have been excluded from the valuation of closing stock unlike preceding years. Had the company continued the accounting practice followed earlier, the value of closing stock as well as profit before tax for the year would have been higher by ₹ 2.80 lakhs."

(b) As per para 6 of AS 16 'Borrowing Costs', borrowing costs that are directly attributable to the acquisition, construction or production of a qualifying asset should be capitalized as part of the cost of that asset. Other borrowing costs should be recognized as an expense in the period in which they are incurred. Borrowing costs should be expensed except where they are directly attributable to acquisition, construction or production of qualifying asset.

A qualifying asset is an asset that necessarily takes a substantial period of time* to get ready for its intended use or sale.

The treatment for total interest amount of $\overline{\mathbf{T}}$ 63.00 lakhs can be given as:

Nature

Purpose

Interest to be

Interest to be

		capitalised	charged to profit and loss account
		₹ in lakhs	₹ in lakhs
Modernisation and renovation of plant and machinery	Qualifying asset	** $63.00 \times \frac{600}{700} = 54.00$	
Advance to supplies for additional assets	Qualifying asset	**63.00× $\frac{70}{700}$ = 6.30	
Working Capital	Not a qualifying asset	STAC	$63.00 \times \frac{30}{700} = 2.70$
* Associations Store			<u> </u>

*Accounting Standards Interpretation (ASI) 1 deals with the meaning of expression 'substantial period of time'. A substantial period of time primarily depends on the facts and circumstances of each case. However, ordinarily, a period of twelve months is considered as substantial period of time unless a shorter or longer period can be justified on the basis of the facts and circumstances of the case.

** It is assumed in the above solution that the modernization and renovation of plant and machinery will take substantial period of time (i.e. more than twelve months). Regarding purchase of additional assets, the nature of additional assets has also been considered as qualifying assts. Alternatively, the plant and machinery and additional assets may be assumed to be non-qualifying assts on the basis that the renovation and installation of additional assets will not take substantial period of time. In that case, the entire amount of interest, ₹ 63.00 lakhs will be recognized as expense in the profit and loss account for year ended 31st March, 2011.

Question 2

A firm of contractors obtained a contract for construction of bridges across a river. The following details are available in the records kept for the year ended 31st March, 2012. (\overline{z} in lake)

	(< in lakns)
Total Contract Price	2,000
तन्नसा के प्रातनामय	1,000
Work Certified	
Work not certified	210
work not certined	990
Estimated further Cost to Completion	
Progress Payment Received	800
	280

To be Received

The firm seeks your advice and assistance in the presentation of accounts keeping in view the requirements of AS 7 (Revised) issued by ICAI.

Answer

(a)	Amount of foreseeable loss	(₹ in lakhs)
	Total cost of construction (1,000 + 210 + 990)	2,200
	Less: Total contract price	<u>2,000</u>
	Total foreseeable loss to be recognized as expense	200

According to Para 35 of AS 7 (Revised 2002), when it is probable that total contract costs will exceed total contract revenue, the expected loss should be recognized as an expense immediately.

(b)	Contract work-in-progres	s i.e. cost incurred to date are ₹ 1,210 lakhs	(₹ in lakhs)
	Work certified	OST ACC	1,000
	Work not certified		210
	work not certified	O Z	<u>1,210</u>

This is 55% (1,210/2,200 \times 100) of total costs of construction.

- (c) Proportion of total contract value recognised as revenue as per para 21 of AS 7 (Revised). 55% of ₹ 2,000 lakhs = ₹ 1,100 lakhs
- (d) Amount due from/to customers = Contract costs + Recognised profits Recognised
 losses (Progress payments received + Progress payments to be received)

= [1,210 + Nil - 200 - (800 + 280)] ₹ in lakhs = [1,210 - 200 - 1,080] ₹ in lakhs

Amount due to customers = ₹ 70 lakhs. The amount of ₹ 70 lakhs will be shown in the balance sheet as liability.

(e) The relevant disclosures under AS 7 (Revised) are given below:

	in lakhs
Contract revenue	1,100
Contract expenses	1,210
Recognised profits less recognized losses	(200)
Progress billings (800 + 280)	1.080
Retentions (billed but not received from contractee)	280
Gross amount due to customers	70

Question 3

(a) A Limited Company closed its accounting year on 30.6.2011 and the accounts for that period were considered and approved by the board of directors on 20th August, 2011. The company was engaged in laying pipe line for an oil company deep beneath the earth. While doing the boring work on 1.9.2011 it had met a rocky surface for which it was estimated that there would be an extra cost to the tune of ₹ 80 lakhs. You are required to state with reasons, how the event would be dealt with in the financial statements for the year ended 30.6.11.

(b) A Ltd. purchased fixed assets costing ₹ 5,100 lakhs on 1.1.11 and the same was fully financed by foreign currency loan (U.S. Dollars) payable in three annual equal installments. Exchange rates were 1 Dollar = ₹ 42.50 and ₹ 45.00 as on 1.1.11 and 31.12.11 respectively. First installment was paid on 31.12.11. The entire difference in foreign exchange has been capitalized.

You are required to state, how these transactions would be accounted for.

Answer

(a) Para 3.2 of AS 4 (Revised) on Contingencies and Events Occurring after the Balance Sheet Date defines 'events occurring after the balance sheet date' as 'significant events, both favourable and unfavourable, that occur between the balance sheet date and the date on which financial statements are approved by the Board of Directors in the case of a company'. The given case is discussed in the light of the above mentioned definition and requirements given in paras 13-15 of the said AS 4 (Revised).

In this case the incidence, which was expected to push up cost became evident after the date of approval of the accounts. So that was not an 'event occurring after the balance sheet date'. However, this may be mentioned in the Directors' Report.

(b) As per para 13 of AS 11 (Revised 2003) 'The Effects of Changes in Foreign Exchange Rates', exchange differences arising on the settlement of monetary items or on reporting an enterprise's monetary items at rates different from those at which they were initially recorded during the period, or reported in previous financial statements, should be recognized as income or expenses in the period in which they arise. Thus exchange differences arising on repayment of liabilities incurred for the purpose of acquiring fixed assets are recognized as income or expense.

Calculation of Exchange Difference:

Foreign currency loan = $\frac{\text{Rs.5},100 \text{ lakhs}}{\text{Rs.42.50}}$ = 120 lakhs US Dollars

Exchange difference = ₹120 lakhs US Dollars × (45.00 – 42.50)

= ₹ 300 lakhs (including exchange loss on payment of first installment)

Therefore, entire loss due to exchange differences amounting ₹ 300 lakhs should be charged to profit and loss account for the year.

Question 4

(i) Advise P Co. Ltd. about the treatment of the following in the Final Statement of Accounts for the year ended 31st March, 2012.

A claim lodged with the Railways in March, 2008 for loss of goods of ₹ 2,60,000 had been passed for payment in March, 2012 for ₹ 1,75,000. No entry was passed in the books of the Company, when the claim was lodged.

(ii) The notes to accounts of X Ltd. for the year 2011-12 include the following:

"Interest on bridge loan from banks and Financial Institutions and on Debentures specifically obtained for the Company's Project amounting to ₹ 1,80,80,000 has been capitalized during the year, which includes approximately ₹ 1,76,00,000 capitalised in respect of the utilization of loan and debenture money for the said purpose." Is the treatment correct? Briefly comment.

Answer

Prudence suggests non-consideration of claim as an asset in anticipation. So receipt of claims is (i)

generally recognised on cash basis. Para 9.2 of AS 9 on 'Revenue Recognition' states that where the ability to assess the ultimate collection with reasonable certainty is lacking at the time of raising any claim, revenue recognition is postponed to the extent of uncertainty involved. Para 9.5 of AS 9 states that when recognition of revenue is postponed due to the effect of uncertainties, it is considered as revenue of the period in which it is properly recognised. In this case it may be assumed that collectability of claim was not certain in the earlier periods. This is supposed from the fact that only $\overline{< 1,75,000}$ were collected against a claim of $\overline{< 2,60,000}$. So this transaction cannot be taken as a Prior Period Item.

In the light of revised AS 5, it will not be treated as extraordinary item. However, Para 12 of AS 5 (Revised) states that when items of income and expense within profit or loss from ordinary activities are of such size, nature, or incidence that their disclosure is relevant to explain the performance of the enterprise for the period, the nature and amount of such items should be disclosed separately. Accordingly, the nature and amount of this item should be disclosed separately as per Para 12 of AS 5 (Revised).

(ii) The treatment done by the company is not in accordance with AS 16 'Borrowing Costs'. As per Para 10 of AS 16, to the extent that funds are borrowed specifically for the purpose of obtaining a qualifying asset, the amount of borrowing costs eligible for capitalisation on that asset should be determined as the actual borrowing costs incurred on that borrowing during the period. Hence, the capitalisation of borrowing costs should be restricted to the actual amount of interest expenditure i.e. ₹ 1,76,00,000. Thus, there is an excess capitalisation of ₹ 4,80,000. This has resulted in overstatement of profits by ₹ 4,80,000 and amount of fixed assets has also gone up by this amount.

Question 5

From the following Summary Cash Account of X Ltd. prepare Cash Flow Statement for the year ended 31st March, 2012 in accordance with AS 3 (Revised) using the direct method. The company does not have any cash equivalents.

Su	mmary Cash Account for the year ended 31.3	.2012
	₹ '000	₹ '000
Balance on 1.4.2011	400 Payment to Suppliers	2,600
Issue of Equity Shares	1,000 Purchase of Fixed Assets	1,200
Receipts from Customers	4,500 Overhead expense	200
Sale of Fixed Assets	200 Wages and Salaries	600
	Taxation	450
	Dividend	100
	Repayment of Bank Loan	800
	Balance on 31.3.2012	150
	<u>6,100</u>	<u>6,100</u>

Answer:

X Ltd.

Cash Flow Statement for the year ended 31st March, 2012 (Using the direct method)

	₹ ′000	₹ ′000
Coch flows from an arching activities		
Cash flows from operating activities	4 500	
Cash receipts from customers	4,500	
Cash payment to suppliers	(2,600)	
Cash paid to employees	(600)	

Cash payments for overheads Cash generated from operations Income tax paid Net cash from operating activities	(200) 1,100 (450)	650
Cash flows from investing activities Payment for purchase of fixed assets Proceeds from sale of fixed assets Net cash used in investing activities	(1,200) _ <u>200</u>	(1,000)
Cash flows from financing activities Proceeds from issuance of equity shares Bank loan repaid Dividend paid Net cash from financing activities Net increase in cash Cash at beginning of the period Cash at end of the period	1,000 (800) (100)	100 (250) 400 150

Question 6

XYZ Ltd., has undertaken a project for expansion of capacity as per the following details:

		Plan	Actual
	2	₹	र
April, 2011		2,00,000	2,00,000
May, 2011		2,00,000	3,00,000
June, 2011	(ທ	10,00,000	
July, 2011	2	1,00,000	/ <u>'</u>
August, 2011		2,00,000	1,00,000
September, 2011	$\langle \rangle$	5,00,000	7,00,000

The company pays to its bankers at the rate of 12% p.a., interest being debited on a monthly basis. During the half year company had ₹ 10 lakhs overdraft upto 31st July, surplus cash in August and again overdraft of over ₹ 10 lakhs from 1.9.2011. The company had a strike during June and hence could not continue the work during June. Work was again commenced on 1st July and all the works were completed on 30th September. Assume that expenditure were incurred on 1st day of each month. Calculate:

- (i) Interest to be capitalised.
- (ii) Give reasons wherever necessary.

Assume:

- (a) Overdraft will be less, if there is no capital expenditure.
- (b) The Board of Directors based on facts and circumstances of the case has decided that any capital expenditure taking more than 3 months as substantial period of time.

Answer

(a)			XYZ Ltd.	
Month	Actual Expenditure	Interest Capitalised	Cumulative Amount	
	₹	₹	₹	
April, 2011	2,00,000	2,000	2,02,000	

May, 2011	3,00,000	5,020	5,07,020	
June, 2011	-	5,070	5,12,090	Note 2
July, 2011	-	5,120	5,17,210	
August, 2011	1,00,000	-	6,17,210	Note 3
September, 2011	<u>7,00,000</u>	<u>10,000</u>	<u>13,27,210</u>	Note 4
	<u>13,00,000</u>	<u>27,210</u>	<u>13,27,210</u>	

Note:

- 1. There would not have been overdraft, if there is no capital expenditure. Hence, it is a case of specific borrowing as per AS 16 on Borrowing Costs.
- 2. The company had a strike in June and hence could not continue the work during June. As per Para 14 (c) of AS 16, the activities that are necessary to prepare the asset for its intended use or sale are in progress. The strike is not during extended period. Thus during strike period, interest need to be capitalised.
- 3. During August, the company did not incur any interest as there was surplus cash in August. Therefore, no amount should be capitalised during August as per Para 14(b) of AS 16.
- During September, it has been taken that actual overdraft is ₹ 10 lakhs only. Hence, only ₹ 10,000 interest has been capitalised even though actual expenditure exceeds ₹ 10 lakhs.

Alternatively, interest may be charged on total amount of (\mathbf{E} 6,17,210 + \mathbf{E} 7,00,000 = 13,17,210) for the month of September, 2011 as it is given in the question that overdraft was over \mathbf{E} 10 lakhs from 1.9.2011 and not exactly \mathbf{E} 10 lakhs. In that case, interest amount \mathbf{E} 13,172 will be capitalised for the month of September.

S

Question 7

(a) At the end of the financial year ended 31st December, 2011, a company finds that there are twenty law suits outstanding which have not been settled till the date of approval of accounts by the Board of Directors. The possible outcome as estimated by the Board is as follows:

	Probability	Loss (₹)
In respect of five cases (Win)	100%	-
Next ten cases (Win)	60%	_
Lose (Low damages)	30%	1,20,000
Lose (High damages)	10%	2,00,000
Remaining five cases 🛛 👝 🔪 🕌		
Win	50%	-
Lose (Low damages) - 제네 / 등	30%	1, <mark>0</mark> 0,000
Lose (High damages)	20%	2,10,000

Outcome of each case is to be taken as a separate entity. Ascertain the amount of contingent loss and the accounting treatment in respect thereof.

(b) Z Ltd. presents the following information for the year ended 31.03.2011 and 31.03.2012 from which you are required to calculate the Deferred Tax Asset/Liability assuming tax rate of 30% and state how the same should be dealt with as per relevant accounting standard.

31.03.2011	31.03.2012
₹ (lakhs)	₹ (lakhs)
4,010.10	4,023.54
2,016.60	4,110.00
518.35	611.45
4.88	_
	₹ (lakhs) 4,010.10 2,016.60 518.35

Provision for Doubtful Debts 282.51 294.35 Z Ltd. had incurred a loss of ₹ 504 lakhs for the year ended 31.03.2012 before providing for Current Tax of ₹ 26.00 lakhs.

Answer:

- (a) According to AS 29 'Provisions, Contingent Liabilities and Contingent Assets', contingent liability should be disclosed in the financial statements if following conditions are satisfied:
 - (i) There is a present obligation arising out of past events but not recognized as provision.
 - (ii) It is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation.
 - (iii) The possibility of an outflow of resources embodying economic benefits is also remote.
 - (iv) The amount of the obligation cannot be measured with sufficient reliability to be recognized as provision.

In this case, the probability of winning of first five cases is 100% and hence, question of providing for contingent loss does not arise. The probability of winning of next ten cases is 60% and for remaining five cases is 50%. As per AS 29, we make a provision if the loss is probable. As the loss does not appear to be probable and the possibility of an outflow of resources embodying economic benefits is not remote rather there is reasonable possibility of loss, therefore disclosure by way of note should be made. For the purpose of the disclosure of contingent liability by way of note, amount may be calculated as under:

Expected loss in next ten cases = 30% of ₹ 1,20,000 + 10% of ₹ 2,00,000

= ₹ 36,000 + ₹ 2<mark>0,000</mark> = ₹ 56,000

Expected loss in remaining five cases = 30% of ₹ 1,00,000 + 20% of ₹ 2,10,000

= ₹ 30,000 + ₹ 42,000 =₹ 72,000

To disclose contingent liability on the basis of maximum loss will be highly unrealistic. Therefore, the better approach will be to disclose the overall expected loss of \mathfrak{F} 9,20,000 (\mathfrak{F} 56,000 × 10 + \mathfrak{F} 72,000 × 5) as contingent liability.

₹ in la	khs ₹ in lakhs	
	31.3.2011	31.3.2012
Carried Forward Business Loss and Depreciat	ion 2,016.60	4,110.00
Allowance	अप्रि त	
: Disallowance under Section 43 B of Income	Tax	
Act,1961	518.35	611.45
Provision for Doubtful Debts	282.51	294.35
	2,817.46	5,015.80
Less: Depreciation	<u>4,010.10</u>	<u>4,023.54</u>
	(–) 1,192.64	992.26
Less: Deferred Revenue Expenditure	4.88	
Timing Differences	(–) <u>1,197.52</u>	<u>992.26</u>
Deferred Tax Liability	359.26	
Deferred Tax Asset		297.68

Where an enterprise has unabsorbed depreciation or carry forward of losses under tax laws, deferred tax assets should be recognized only to the extent that there is virtual certainty supported by convincing evidence that future taxable income will be available against which such deferred tax assets can be realized. The existence of unabsorbed depreciation or carry forward of losses is strong evidence that

The Institute of Cost Accountants of India (ICAI) [Statutory Body under an Act of Parliament] Page 103

(b)

future taxable income may not be available. Deferred Tax Asset of ₹ 297.68 lakhs should not be recognized as an asset as per para 17 of AS 22 on 'Accounting for Taxes on Income'. Deferred Tax Liability of ₹ 359.26 lakhs should be disclosed under a separate heading in the balance sheet of Z Ltd., separately from current assets and current liabilities.

Question 8

(a) X Co. Ltd. supplied the following information. You are required to compute the basic earnings per share: Accounting year 1.1.2010 – 31.12.2010)

: Year 2010 : ₹ 20,00,000
: Year 2011 : ₹ 30,00,000
: 10,00,000 shares
One new share for each four outstanding i.e., 2,50,000 shares.
Right Issue price – ₹ 20
Last date of exercise rights – 31.3.2011.
terms:
(₹ in Lakhs) 20.00 5 years 5.00 1.00 2.00 15%

Depreciation is provided on straight line method @ 10% per annum. Ascertain unearned financial income and necessary entries may be passed in the books of the Lessee in the First year.

(c) The following particulars are stated in the Balance Sheet of M/s Exe Ltd. as on 31.03.2010:

'			
		(₹ in Lakhs)	
	Defe	rred Tax Liability (Cr.) 20.00	
	Defe	rred Tax Assets (Dr.)	
	Th	e following transactions were reported during the year 2010-11:	
	(i)	Tax Rate	50%
	(ii)	Depreciation – As per Books	50.00
		Depreciation – for Tax purposes	30.00
		There were no addition to Fixed Assets during the year.	
	(iii)	Items disallowed in 2009-10 and allowed for Tax purposes in 2010-	10.00
		11	
	(iv)	Interest to Financial Institutions accounted in the Books on accrual	
		basis, but actual payment was made on 30.09.2011	20.00
	(v)	Donations to Private Trusts made in 2010-11	10.00
	(vi)	Share issue expenses allowed under 35(D) of the I.T. Act, 1961 for	
		the year 2010-11 (1/10th of ₹ 50.00 lakhs incurred in 2006-2007)	5.00
	(vii)	Repairs to Plant and Machinery ₹ 100.00 lakhs was spread over the	period
		2010-11 and 2011-12 equally in the books. However, the entire exp	enditure
		was allowed for Income-tax purposes.	

Indicate clearly the impact of above items in terms of Deferred Tax liability/Deferred Tax Assets and the balances of Deferred Tax Liability/Deferred Tax Asset as on 31.03.2011.

Solution:		
(a) Computation of Basic Earnings Per Sł	are	
(as per paragraphs 10 and 26 of AS 20 on Earning	s Per Shar	e)
	Year 2009	Year 2010
	₹	₹
EPS for the year 2009 as originally reported		
Net profit of the year attributable to equity shareholders		
Weighted averagenum berof equity sharesoutstanding during the year		
= (₹ 20,00,000 / 10,00,000 shares)	2.00	
EPS for the year 2009 restated for rights issue		
= [₹ 20,00,000 / (10,00,000 shares × 1.04)]	1.92	
(Refer working note.2)	(approx.)	
EPS for the year 2010 including effects of rights issue		
Rs. 30,00,000		
(10,00,000shares×1.04×3/12)+(12,50,000shares×9/12)	5	
Rs.30,00,000		2.51
11,97,500shares		(approx.)
Working Notes:	/	
1. Computation of theoretical ex-rights fair value per share		
Fair value of all outstandin g shares immediately prior to exercise of rights + Total amount Number of shares outstandin g prior to exercise + Number of shares issued in		n exercise
_ € s. 25×10,00,000 shares → €s. 20×2,50,000 shares →		
10,00,000 shares + 2,50,000 shares		
$=\frac{\text{Rs.3,00,00,000}}{12,50,000 \text{shares}} = \text{Rs.24}$	भय	
2. Computation of adjustment factor		
_ Fair valueper shareprior to exercise of rights		
Theoreticalex - rights valueper share		
$=\frac{\text{Rs.25}}{\text{Rs.24}(\text{Refer WorkingNote 1})}=1.04(\text{approx.})$		
(b) Computation of Unearned Finance Income		
As per AS 19 on Leases, unearned finance income is the d	ifference	between (a

As per AS 19 on Leases, **unearned finance income** is the difference between (a) the **gross investment** in the lease and (b) the present value of minimum lease payments under a finance lease

from the standpoint of the lessor; and any unguaranteed residual value accruing to the lessor, at the interest rate implicit in the lease.

where :

(i) **Gross investment** in the lease is the aggregate of (i) minimum lease payments from the stand point of the lessor and (ii) any unguaranteed residual value accruing to the lessor.

Gross Investment = Minimum lease payments + Unguaranteed residual value

= (Total lease rent + Guaranteed residual value) + Unguaranteed residual value

= [(₹ 5,00,000 × 5 years) + ₹ 1,00,000] + ₹ 1,00,000 = ₹ 27,00,000

(ii) Table showing present value of (i) Minimum lease payments (MLP) and (ii) Unguaranteed residual value (URV).

value	Year	MLP inclusive of UR	ivsT	Internal rate return (Disco factor 15%	unt	/alue
			₹			₹
	1		5,00,000	0.8696	4,3	34,800
	2		5,00,000	0.7561		78,050
	3		5,00,000	0.6575		28,750
	4		5,00,000	0.5718		85,900
	5		5,00,000	0.4972		48,600
			L,00,000	0.4972		49,720
	((Guaranteed residual v	alue)			
					17,2	25,820
			L,00,000	0.4972		49,720
	(L	Jnguaranteed residual	value)		0	
					17,3	75,540
	Une	earned Finance Income	e =	(i) – (ii)		
		=₹27,00),000 – ₹ 1	17,75,540 = ₹ 9,	24,460	
		Journal	Entries in	the books of B	Ltd.	
			\sim		₹	₹
1 + +b c	incontion of l				X	X
At the	inception of le Machinery ac			Dr	17 25 920	
	To A Ltd.'s ac		~ 2		. 17,25,820	17,25,820
		of machinery record	lod at h	rocont		17,23,820
	value of MLP)		ieu at pi	esent	TTET	
At the		st year of lease	P		174	
At the		ges account (Refer Wor	king Note) Dr	. 2,58,873	
	To A Ltd.'s ac		King Note	/ 51	. 2,30,075	2,58,873
		ance charges for first y	vear due)			2,50,075
-	A Ltd.'s accou		cui uucj	 Dr	. 5 ,00,000	
	To Bank accou			DI	. 3,00,000	5,00,000
		ease rent paid to th	e lessor	which		5,00,000
		standing liability of ₹				
		e of ₹ 2,58,873)	~ ~,+1,12			
-	Depreciation			 Dr	. 1,72,582	
	To Machinery			DI	. 1,72,502	1,72,582
		epreciation provided	@ 10% n	a on		1,72,302
	straight line n		C _0/0 p			
-	Profit and los			Dr	. 4,31,455	

To Depreciation account To Finance charges account (Being the depreciation and finance charges transferred to profit and loss account)

Working Note:

Table showing apportionment of lease payments by B Ltd. between the finance charges and the reduction of outstanding liability.

Year	Outstanding liability (opening	Lease rent	Finance charge	Reduction in outstanding	Outstanding liability (closing
	balance)		0.101.80	liability	balance)
	₹	₹	₹	₹	₹
1	17,25,820	5,00,000	2,58,873	2,41,127	14,84,693
2	14,84,693	5,00,000	2,22,704	2,77,296	12,07,397
3	12,07,397	5,00,000	1 <mark>,8</mark> 1,110	3,18,890	8,88,507
4	8,88,507	5,00,000	1,33,276	3,66,724	5,21,783
5	5,21,783	5,00,000	78,267	<u>5,21,783</u>	1,00,050*
			8,74,230	17,25,820	

The difference between this figure and guaranteed residual value (₹ 1,00,000) is due to approximation in computing the interest rate implicit in the lease.

(c) Impact of various items in terms of deferred tax liability/deferred tax asset.

Transactions	Analysis	Nature o <mark>f</mark> difference	Effect	Amount
Difference in depreciation	Generally, written down value method of depreciation is adopted under IT Act which leads to higher depreciation in earlier years of useful life of the asset in comparison to later years	Responding timing difference	Reversal of DTL	₹ 20 lakhs × 50% = ₹ 10 lakhs
Disallowances, as per IT Act, of earlier years	Tax payable for the earlier year was higher on this account.	Responding timing difference	Reversal of DTA	₹ 10 lakhs × 50% = ₹ 5 lakhs
Interest to financial institutions	It is allowed as deduction under section 43B of the IT Act, if the payment is made before the due date of filing the return of income (i.e. 31st October, 2011).	No timing difference	Not applicable	Not applicable
Donation to private trusts	Not an allowable expenditure under IT Act.	Permanent difference	Not applicable	Not applicable

The Institute of Cost Accountants of India (ICAI) [Statutory Body under an Act of Parliament] Page 107

1,72,582 2,58,873

Revisionary Test Paper for June 2012 Examination

Share issue expenses	Due to disallowance of full expenditure under IT Act, tax payable in the earlier years was higher.	Responding timing difference	Reversal of DTA	₹ 5 lakhs × 50% = ₹ 2.5 lakhs
Repairs to plant and machinery	Due to allowance of full expenditure under IT Act, tax payable of the current year will be less.	Originating timing difference	Increase in DTL	₹ 50 lakhs × 50% = ₹ 25 lakhs
	Defer	red Tax Liability Ac	count	
Dr.	_			_Cr.
		lakhs		₹ in lakhs
31.3.2011 To	Profit and Loss	1.4.201		ance b/d 20.00 fit and Loss
	account (Depreciation)	10.00		ount 25.00
То	Balance c/d	35.00		pairs to plant)
10	Bulunce ef u	45.00		<u>45.00</u>
	/ 0 /	1.4.201	1 By Bala	ance b/d 35.00
			5	
Dr.	Defe	erred Tax Asset Acc	ount	Cr.
DI.	₹ in lakh	s		₹ in lakhs
1.4.2010 To	Balance b/d 10.00	31. <mark>3.2</mark> 011	By Profit ar	nd Loss Account:
			Items di	sallowed in
			2009-10	and allowed as
			per I.T.	
	Z		2010-11	
				sue expenses 2.50
	10.00		By Balance	c/d <u>2.50</u> <u>10.00</u>
1.4.2011 To	Balance b/d 2.50	\sim \sim	\sim	<u>10.00</u>
-			9/	

Question 9

(a) Venus Ltd. has an asset, which is carried in the Balance Sheet on 31.3.2011 at ₹ 500 lakhs. As at that date the value in use is ₹ 400 lakhs and the net selling price is ₹ 375 lakhs.

From the above data:

- (i) Calculate impairment loss.
- (ii) Prepare journal entries for adjustment of impairment loss.
- (iii) Show, how impairment loss will be shown in the Balance Sheet.
- (b) Swift Ltd. acquired a patent at a cost of ₹ 80,00,000 for a period of 5 years and the product life-cycle is also 5 years. The company capitalized the cost and started amortizing the asset at ₹ 10,00,000 per annum. After two years it was found that the product life-cycle may continue for another 5 years from then. The net cash flows from the product during these 5 years were expected to be ₹ 36,00,000, ₹ 46,00,000, ₹ 44,00,000 and ₹ 34,00,000. Find out the amortization cost of the patent for each of the years.

Solution:

(a) (i) Recoverable amount is higher of value in use ₹ 400 lakhs and net selling price ₹ 375 lakhs.

∴ Recoverable amount = ₹ 400 lakhs

Impairment loss = Carried Amount – Recoverable amount

= ₹ 500 lakhs – ₹ 400 lakhs = ₹ 100 lakhs.

(ii)					ries	
	Par	ticulars			Dr.	Cr.
					Amount	Amount
					₹ in lakhs	₹ in lakhs
	a)	Impairment loss A/c		Dr.	100	
		To Asset A/c				100
		(Being the entry for		4		
		accounting impairment				
		loss)				
	b)	Profit and loss A/c		Dr.	100	
		To Impairment loss A/c		NO ENC		100
		(Being the entry to transfer			Z	
		impairment loss to profit		7 \		
		and loss account)	-		P	
(iii)		Balance Sheet of	Ve	nus Ltd. as o	n 31.3.2011	(extracts)
					S S	₹ in lakhs
			As	set less depre	eciation	500
			Le	ss: Impairme	nt loss	<u>100</u>
				/		<u>400</u>

(b) Swift Limited amortised ₹ 10,00,000 per annum for the first two years i.e. ₹ 20,00,000. The remaining carrying cost can be amortized during next 5 years on the basis of net cash flows arising from the sale of the product. The amortisation may be found as follows:

Year	Net cash flows Ame	ortization Ratio Am	ortization Amount
	Rs		₹
I		0.125	10,00,000
II		0.125	10,00,000
III	36,00,000	0.180	10,80,000
IV	46,00,000	0.230	13,80,000
V	44,00,000	0.220	13,20,000
VI	40,00,000	0.200	12,00,000
VII	<u>34,00,000</u>	<u>0.170</u>	<u>10,20,000</u>
Total	<u>2,00,00,000</u>	<u>1.000</u>	<u>80,00,000</u>

It may be seen from above that from third year onwards, the balance of carrying amount i.e., ₹ 60,00,000 has been amortized in the ratio of net cash flows arising from the product of Swift Ltd.

Note: The answer has been given on the basis that the patent is renewable and Swift Ltd. got it renewed after expiry of five years.

Question No.10: The following information has been extracted from the books of account of Hero Ltd. as at 31st March, 2012:

	Dr. (₹'000)	Cr. (₹ ′000)
Administration Expenses	480	(1 000)
Cash at Bank and on Hand	228	
Cash Received on Sale of Fittings		10
Long Term Loan		70
Investments	200	
Depreciation on Fixtures, Fittings, Tools and Equipmen	t	
(1st April, 2011)	102	260
Distribution Costs	102	
Factory Closure Costs	60 680	
Fixtures, Fittings, Tools and Equipment at Cost Profit & Loss Account (at 1st April, 2011)	4	80
Purchase of Equipment	120	00
Purchases of Goods for Resale	1710	
Sales (net of Excise Duty)		3,000
Share Capital		
(1,00,000 shares of ₹ 10 each fully paid)		1,000
Stock (at 1st April, 2011)	140	
Trade Creditors		80
Trade Debtors	780	
	<u>4,500</u>	<u>4,500</u>
Additional Information:	S S	

(1) The stock at 31st March, 2012 (valued at the lower of cost or net realizable value) was estimated to be worth ₹ 2,00,000.

Fixtures, fittings, tools and equipment all related to administration. Depreciation is charged at a (2) rate of 20% per annum on cost. A full year's depreciation is charged in the year of acquisition, but no depreciation is charged in the year of disposal.

During the year to 31st March, 2012, the Company purchased equipment of ₹ 1,20,000. It also (3) sold some fittings (which had originally cost ₹ 60,000) for ₹ 10,000 and for which depreciation of ₹ 30,000 had been set aside.

(4) The average Income tax for the Company is 50%. Factory closure cost is to be presumed as an allowable expenditure for Income tax purpose.

The company proposes to pay a dividend of 20% per Equity Share. (5)

Prepare Hero Ltd.'s Profit and Loss Account for the year to 31st March, 2012 and balance Sheet as at that date in accordance with the Companies Act, 1956 in the Vertical Form along with the Notes on Accounts containing only the significant accounting policies.

Answer :

Hero Ltd.

				Balance Sheet as at 31st Marcl (₹	h, 2012 in thousands)
Т	SOL	JRCES	OF FUNDS		
	(1)	Shar	eholders' funds:		
	. ,	(a)	Capital	1,000	
		(b)	Reserves and surplus	_150	
					1,150
	(2)	Loar	n funds:		
		(a)	Secured loans	70	
		(b)	Unsecured loans	_	
					70

	4.00		<u>1,220</u>
II		LICATION OF FUNDS	
	(1)	Fixed assets:	
		(a) Gross block 740	
		(b) Less: Depreciation <u>378</u>	
		(c) Net block 362	
		(d) Capital work in progress	
		-	
			362
	(2)	Investments	200
	(3)		
		(a) Inventories 200	
		(b) Sundry debtors 780	
		(c) Cash and bank balances 228	
		(d) Other current assets	
		(e) Loans and advances	
		<u>1,208</u>	
		Less: Current Liabilities and Provisions:	
		(a) Liabilities	
		(b) Provisions	
		550	
		Net current assets	658
	(4)	Miscellaneous expenditure	_
		(to the extent not written off or	
		adjusted)	
		TOTAL	<u>1,220</u>
		Contingent Liabilities Nil	
		Profit and Loss Account for the year ended 31st March,	
			thousands)
Inco			2 0 0 0
		t of Excise Duty)	3,000
Incr	ease	/(Decrease) in Stocks	<u> 60</u>
			3,060
-		$a \rightarrow # \land a$	
-	enditu		
		of Goods for Resale	
		ration Expenses	
		ion costs	
		ale of asset 20	
Dep	recia	tion148	
			<u>2,460</u>
		.	600
		fore Extraordinary Items	
Fact	tory C	Closure Costs	60
			540
		fore taxation	
Prov	vision	for tax	<u>270</u>
			270
	profi		
		prought forward from previous year	80
Prof	fit Av	ailable For Appropriation	350

Appropriations		
Proposed Equity Dividend	200	
Amount transferred to general reserve	30	<u>230</u>
		120
Balance carried forward		

NOTES ON ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2012

Significant Accounting Policies:

- (a) Basis for preparation of financial statements: The financial statements have been prepared under the historical cost convention, in accordance with the generally accepted accounting principles and the provisions of the companies Act, 1956 as adopted consistently by the company.
- (b) Depreciation: Depreciation on fixed assets is provided using the straight-line method, based on the period of five years. Depreciation on additions is provided for the full year but no depreciation is provided on assets sold in the year of their disposal.

= 0 =

1

(c) Investments: Investments are valued at lower of cost or net realizable value.

(d) Inventories: Inventories are valued at the lower of historical cost or the net realizable value.

Working Notes:

WOIN				
		(₹ in thousands)		
(1)	Fixtures, Fittings, Tools and Equipment			
	Gross Block			
	As on 1.4.2011 58	0		
	Add: Additions during the year <u>12</u>	0		
	80	0		
	Less: Deductions during the year <u>6</u>	<u>0</u>		
	As on 31.3.2011	740		
	Depreciation	7/		
	As on 1.4.2011 26	0		
	For the year (20% on 740)	8		
	40	8		
	Less: Deduction during the year <u>3</u>	<u>0</u>		
	As on 31.3.2012	<u>378</u>		
	Net block as on 31.3.2012	<u>362</u>		
(2)	Provision for taxation			
	Profit as per profit and loss account	540		
	Add back: Loss on sale of asset (short term capital 2	0		
	loss)	74		
	Depreciation <u>14</u>	_		
		<u> 168 </u>		
		708		
	Less: Depreciation under Income-tax Act	168		
		<u>540</u>		
	Provision for tax @ 50%	270		
	It has been assumed that depreciation calculated under Income	-tax Act amounts to ₹		
	84,000)			
3)	Provisions			
	(a) Provision for taxation	270		
	(b) Proposed dividend (20% on ₹ 10,00,000)	<u>200</u>		
		<u>470</u>		
(4)				
	and loss account ₹ 1,20,000.			

Notes:

- (1) The rate of interest on long term loan is not given in the question. Reasonable assumption may be made regarding the rate of interest and accordingly it may be accounted for.
- (2) As per Companies (Transfer of Profits to Reserve) Rules, the amount to be transferred to the reserves shall not be less than 7.5% of the current profits since proposed dividend exceeds 15% but does not exceed 20% of the paid up capital. In this answer, it has been assumed that ₹. 30,000 have been transferred to General Reserve. The students may transfer any amount based on a suitable percentage not less than 7.5%.
- (3) In the absence of details regarding factory closure costs, there costs are treated as extraordinary items in the above solution assuming that the factory is permanently closed. However, the factory may close for a short span of time on account of strikes, lockouts etc. and such type of factory closure costs should be treated as loss from ordinary activities. In that case also, a separate disclosure regarding the factory closure costs will be required as per para 12 of AS 5 (Revised) 'Net Profit or Loss for the Period, Prior Period Items and Changes in Accounting Policies.'

Question 11

On 1st November, 2010 Squash Ltd. was incorporated with an authorized capital of \gtrless 200 crores. It issued to its promoters equity capital of \gtrless 10 crores which was paid for in full. On that day it purchased the running business of Jam Ltd. for \gtrless 40 crores and allotted at par equity capital of $\end{Bmatrix}$ 40 crores in discharge of the consideration. The net assets taken over from Jam Ltd. were valued as follows: Fixed Assets $\end{Bmatrix}$ 30 crores, Inventory $\end{Bmatrix}$ 2 crores, Customers' dues \gtrless 14 crores and Creditors $\end{Bmatrix}$ 6 crores. Squash Ltd. carried on business and the following information is furnished to you:

(a)	Summary of cash/bank	transa	ctions (for y	/ear	ended 31st C	october	, 2011).

\ົ <u>ວ</u> \	(₹in crores)
Equity capital raised:	
Promoters (as shown above) 10	
Others	60
Collections from customers	800
Sale proceeds of fixed assets (cost ₹ 18 crores)	4
	<u>864</u>
Payments to suppliers	
Payments to employees 140	
Payment for expenses 100	640
Investments in Upkar Ltd.	20
Payments to suppliers of fixed assets:	
Instalment due 120	120
Interest <u>10</u>	130
Tax payment	54
Dividend	10
Closing cash/bank balance	<u> 10</u>
	864
(b) On 31st October, 2011 Squash Ltd.'s assets and liabilities were:	(₹ in crores)
Inventory at cost	3
Customers' dues	80
Prepaid expenses	2
Advances to suppliers	8

	Amounts	due to suppliers of goods	52
	Amounts	due to suppliers of fixed assets	150
	Outstand	ling expenses	6
(c)	c) Depreciation for the year under:		
	(i)	Companies Act, 1956	₹ 36 crores
	(ii)	Income tax Act, 1961	₹ 40 crores
(d)	Provide for tax at 38.5% of "total income". There are no disallowed expenses for the purpose of		

income taxation. Provision for tax is to be rounded off.

For Squash Ltd. prepare:

(i) Revenue statement for the year ended 31st October, 2011 and

(ii) Balance Sheet as on 31st October, 2011 from the above information.

Solution:

		Squash Ltd. Balance Sheet as at 31st October, 2011		
		Schedule	(₹ in crore	s)
I	SOU	RCES OF FUNDS		
	(1)	Shareholders' funds:		
		(a) Capital	100	
		(b) Reserves and surplus	<u>77.4</u>	
				177.4
	(2)	Loan funds		<u>150</u>
		TOTAL		<u>327.4</u>
Ш				
	(1)	Fixed assets:		
		(a) Gross block	296.4	
		(b) Less: Depreciation	36	
	(2)	(c) Net block		260.4
	(2)	Investments in Upkar Ltd.		20
	(3)	Current assets, loans and advances:		
		(a) Inventories 3 (b) Sundry debtors 80		
		(b)Sundry debtors80(c)Cash and bank balances10		
		(d) Loans and advances:		
		Advances to suppliers		
		Prepaid expenses		
		Tax payment 54	<u>157</u>	
		Less: Current liabilities and provisions:	<u>157</u>	
		(a) Creditors for		
		Goods 52		
		Expenses <u>6</u>		
		58		
		(b) Provision for taxation 52		
			<u>110</u>	
		Net current assets		47
		TOTAL		<u>327.4</u>

Schedule to Balance Sheet

		(₹ in crores)
Α.	Share Capital:	
	Authorised:	<u>200</u>
	Issued and paid-up:	
	10 crores equity shares of ${\mathfrak T}$ 10 each fully paid up (of which	100
	4 crores equity shares have been issued for consideration other than cash, on take-over of business of Jam Ltd.)	

Profit and Loss Account for the year ended 31st October, 2011

	(₹. in crores)
Sales	866
Expenditure:	
Stock taken over from Jam Ltd. 2	
Purchases <u>438</u>	
440	
Closing stock <u>3</u>	
Inventory consumed/sold 443	
Employee cost 140	
Expenses <u>104</u>	
	<u>(681)</u>
Profit before interest, depreciation and tax	185
Interest	(10)
Profit after interest but before depreciation	175
Depreciation	<u>(36)</u>
Profit after depreciation	139
Profit on sale of fixed assets	0.4
Profit before tax	139.4
Provision for tax	<u>(52.00)</u>
Net profit	87.4
Dividend	<u>(10)</u>
Balance carried forward	<u>77.4</u>
Working Notes:	

(₹. in crores)
(1) Net assets of Jam Ltd. taken over:
Fixed Assets
Inventory
Customers' dues
Less: Creditors

Purchase consideration: 40 crores equity shares of T 10 each.

Revisionary Test Paper for June 2012 Examination

(2)	Custome		count		₹.
То	Business Purchase A/c	₹. 14	Ву	Bank A/c	800
То	Sales A/c (Balancing figure)	<u>866</u> 880	Ву	Balance c/d	<u>80</u> <u>880</u>
	Supplier		ods) A	ccount	
		₹			₹
То	Bank A/c (400 – 8)	392	Ву	Business Purchase A/c	5
То	Balance c/d	52	Ву	Purchases A/c	438
				(Balancing figure)	
	C	444	A		444
	Suppliers' (Fix	ed As	sets) A	Account	
	6	₹			₹
То	Bank A/c	130	Ву	Fixed Assets A/c	270
То	Balance c/d (Loan funds) $/ \bigcirc /$	150	7	(Balancing figure)	
	<u> ш</u>	5	Ву	Interest A/c	10
		<u>280</u>		Z	<u>280</u>
	Fixed Asse	ets Acc	ount		
		₹		S	₹
То	Business Purchase A/c	30	Ву	Bank A/C	4
То	Profit and Loss A/c	0.4	Ву	Balance c/d	296.4
То	Suppliers' A/c	270	L,		
		300.4 enses	Accou	nt	<u>300.4</u>
	Exp.	₹	Accou		₹
То	Bank A/c	100	Ву	Profit and Loss A/c	104
То	Balance c/d (Outstanding expenses)	6		(Balancing figure)	-
	को मा		Ву	Balance c/d	
	adden B	ΊV	ZZ	(Prepaid expenses)	_2
(2)		<u>106</u>			<u>106</u>
(3)	Calculation of tax provision: Profit before depreciation				₹ 175
	Less: Depreciation under Income Tax A	ct			<u> </u>
	Total income under Income Tax Act				135
	Tax due thereon @ 38.5% (rounded off)			52

As sale proceeds of fixed assets are reduced from the appropriate "block of assets" for income tax purpose, and depreciation under Income Tax Act is given in the question, no adjustment for profit on sale of fixed assets ₹ 0.4 crores needs to be made for tax purposes.

Question 12

On 30th September, 2009 Zigzag Enterprises Ltd. was incorporated with an Authorised Capital of ₹ 50 lakhs. Its first accounts were closed on 31st March, 2010 by which time it had become a listed company with an issued subscribed and paid up Capital of ₹. 40 lakhs in 4,00,000 Equity Shares of ₹ 10each. The company started off with two lines of business namely 'First Division' and 'Second Division', with equal asset base with effect from 1st April, 2010. The 'Third Division' was added by the company on 1st April, 2011. The following data is gathered from the books of account of Zigzag Enterprises Ltd:

Trial Balance as on 3	1st March, 2012
-----------------------	-----------------

		(₹. in 000′s)
	Dr.	Cr.
First Division sales	-	15,000
Cost of First Division sales	6,500	-
Second Division sales	AC -	20,000
Cost of sales of Second Division	10,750	-
Third Division Sales	- \0	3,750
Cost of sales of Third Division	2,250	-
Administration costs	5,000	-
Distribution costs	3,750	-
Dividend-Interim	3,000	-
Fixed Assets at cost	22,500	-
Depreciation on Fixed Assets		1,500
Stock on 31st March, 2011	1,000	-
Trade Debtors	1,100	-
Cash at Bank	O 40	-
Trade Creditors	-	1,250
Equity Share Capital in shares of ₹ 10 each		10,000
Retained Profits		2,500
	56,250	<u>56,250</u>

Additional Information:

- (a) Administration costs should be split between the Divisions in the ratio of 5 : 3 : 2.
- (b) Distribution costs should be spread over the Divisions in the ratio of 3 : 1 : 1.
- (c) Directors have proposed a Final Dividend of ₹ 20 lakhs.
- (d) Some of the users of Third Division are unhappy with the product and have lodged claims against the company for damages of ₹ 18.75 lakhs. The claim is hotly contested by the company on legal advice.
- (e) Fixed Assets worth ₹ 75 lakhs were added in the Third Division on 1.4.2010.
- (f) Fixed Assets are written off over a period of 10 years on straight line basis in the books. However for Income tax purposes depreciation at 20% on written down value of the assets is allowed by Tax Authorities.
- (g) Income tax rate may be assumed at 35%.
- (h) During the year First Division has sold to Hitachi Ltd. goods having a sales value of ₹ 62.5 lakhs. Mr. Rydu, the Managing Director of Zigzag Enterprises Ltd. owns 100% of the issued Equity Shares of Hitachi Ltd. The sales made to Hitachi Ltd. were at normal selling price of Zigzag Enterprises Ltd.

You are required to prepare Profit and Loss Account for the year ended 31st March, 2012 and the Balance Sheet as at the date. Your answer should include notes and disclosures as per Accounting Standards.

Solution:

Zigzag Enterprises Ltd.

Profit and Loss Account for the year ending 31st March, 2012

			-	₹. '000
Sales				38,750
Cost of Sales				(19,500)
				19,250
Distribution costs				(3,750)
Administration costs				<u>(5,000)</u>
Profit before tax				10,500
Provision for tax	3,09	7.50		
Deferred tax (35% of ₹. 1,650)	577	7. <u>50</u>		<u>(3,675)</u>
Profit after tax	103			6,825
Dividends (₹. 3,000 + ₹. 2,000)	6/			<u>(5,000)</u>
Profit for the year	4/	SWE C		1,825
Retained profit brought forward (₹2,500 – ₹5	25)	\backslash	<u>1,975</u>
Retained Profit carried forward				<u>3,800</u>
		Enterprises Ltd.		
		as at 31st March, 201	4	
Liabilities	Amount	Assets		Amount
	₹ '000		₹ '000	₹ '000
Share Capital	2	Fixed Assets		
Issued and subscribed		Gross block	22,500	
10,00,000 shares of ₹.10 each, fully	/ 10,000	Less: Depreciation	<u>3,750</u>	18,750
paid up				
Reserves and Surplus		Current Assets, Loans and Advances		
Retained profits	3,800	(a) Current assets		
	1,102.50	Stock	1,000	
Deferred Tax Liability	1,102.50	June	1,000	
নম	81	Debtors	771,100	
	E			
Current liabilities and Provisions				
(a) Current liabilities		Cash at bank	<u>400</u>	2,500
Creditors	1,250	(b) Loans and Advan	ces	NIL
(b) Provisions				
Provision for tax	3,097.50			
Proposed dividend	2,000			
	21,250			21,250

Notes to Accounts:

1. Segmental Disclosures (Business Segments)

				(Figures in	n ₹ 000′s)
		First Division	Second Division	Third Division	Total
	Sales	<u>15,000</u>	<u>2,000</u>	<u>3,750</u>	<u>38,750</u>
	Cost of Sales	6,500	10,750	2,250	19,500
	Administration Cost (5:3:2)	2,500	1,500	1,000	5,000
	Distribution Cost (3:1:1)	2,250	750	750	3,750
	Profit/Loss	<u>3,750</u>	<u>7,000</u>	<u>(250)</u>	<u>10,500</u>
		<u>15,000</u>	<u>20,000</u>	<u>3,750</u>	<u>38,750</u>
	Original cost of Assets (Equal Capital Base)	7,500	7,500	7,500	22,500
	Depreciation @ 10% p.a.	4/		9	
	For the year ended 31.3.2011	750	750	NIL	1,500
	For the year ended 31.3.2012	750	750	750	2,250
No	te: Third division is a reportable s	egment as pe	r <mark>ass</mark> ets critei	ria. Z	
2.	Tax computation				
					(₹ in 000's)
	Profit before tax for the year en			191	10,500
	Add: Depreciation provided in the	ie books (750	+ 750 + 750)		<u>2,250</u>
					12,750
	Less: Depreciation as per Incom	e Tax Act (1,2	00 + 1,200 + 1	1,500)	<u>3,900</u>
	Taxable Income				<u>8,850</u>
	Tax at 35%		* /		<u>3,097.50</u>
3.	Deferred Tax liability (as pe Opening Timing Difference on 1	तो मा	counting for		me) '000
	WDV of fixed assets as per book	KS		1	3,500
	WDV of fixed assets as per Inco	me Tax Act		<u>1</u>	2,000
	Difference				1,500
	Deferred Tax Liability @ 35% or	1,500			525
	This has been adjusted against o	opening balan	ce of retained	d profits.	
	Current year (ended 31st March	n, 2012)		₹	f.'000
	Depreciation as per Books			2	2,250
	Depreciation as per Income Tax	Act (1,200 + 1	1,200 + 1,500) 3	8,900
	Difference			1	.,650

Deferred Tax Liability @ 35% on 1,650 (to be carried forward) 577.50

Disclosure to be made:

- 4. Contingent Liabilities not provided: Company is contesting claim for damages for ₹ 18,75,000 and as such the same is not acknowledged as debts.
- 5. Related Party Disclosure: Para 3 of AS 18 lists out related party relationships. It includes individuals owning, directly or indirectly, an interest in voting power of reporting enterprise which gives them control or significant influence over the enterprises, and relatives of any such individual. In the instant case, Mr. Rydu as a managing director controls operating and financial actions of Zigzag Enterprise Ltd. He is also owning 100% share Capital of Hitachi Ltd. thereby exercising control over it. Hence, Hitachi Ltd. is a related party as per Para 3 of AS 18.

Disclosure to be made.	
Name of the related party and nature of relationship	Hitachi Ltd. common director
Nature of the transaction	Sale of goods at normal commercial terms
Volume of the transaction	Sales to Hitachi Ltd. worth ₹ 62.50 lakhs.
14	ANNIE C
Question No.13	
The following is the Balance Sheet of Riv March, 2012:	er Ltd. having an authorised capital of ₹ 1,000 Crores as on 31st (₹ in crores) ₹ ₹
Sources of funds:	
Shareholders' funds:	
Share capital	
Equity shares of ₹ 10 each fully paid in ca	ish 1,250
Reserves and surplus (Revenue)	3,750 5,000
Loan funds:	
Secured against: (a) Fixed Assets ₹ 900 C	
(b) Working capital ₹ 300	Cr. 💥 1,200 🕤
Unsecured:	<u>1,800</u> 3,000
तनसा	6 <u>,000</u>
Employment of funds:	
Fixed assets:	
Gross block	2,400
Less: Depreciation	<u>600</u> 1,800
Investments at cost (Market value ₹ 3,00	0 Cr.) 1,200
Net current assets:	
Current assets	9,000
Less: Current liabilities	<u>6,000</u> <u>3,000</u>
	<u>6,000</u>

Capital commitments: ₹ 2,100 crores.

The company consists of 2 divisions:

- Established division whose gross block was ₹ 600 crores and net block was ₹ 90 crores; current (i) assets were ₹ 4,500 crores and working capital was ₹ 3,600 crores; the entire amount being financed by shareholders' funds.
- (ii) New project division to which the remaining fixed assets, current assets and current liabilities related.

The following scheme of reconstruction was agreed upon:

- (a) Two new companies Sun Ltd. and Moon Ltd. are to be formed. The authorised capital of Sun Ltd. is to be ₹ 3,000 crores. The authorised capital of Moon Ltd. is to be ₹ 1,500 crores.
- (b) Moon Ltd. is to take over investments at ₹2,400 crores and unsecured loans at balance sheet value. It is to allot equity shares of ₹ 10 each at par to the members of River Ltd. in satisfaction of the amount due under the arrangement.
- (c) Sun Ltd. is to take over the fixed assets and net working capital of the new project division along with the secured loans and obligation for capital commitments for which River Ltd. is to continue to stand guarantee at book values. It is to allot one crore equity shares of ₹ 10 each as consideration to River Ltd. Sun Ltd. made an issue of unsecured convertible debentures of ₹ 1,500 crores carrying interest at 15% per annum and having a right to convert into equity shares of ₹ 10 each at par on 31.3.2012. This issue was made to the members of Sun Ltd. as a right who grabbed the opportunity and subscribed in full.
- (d) River Ltd. is to guarantee all liabilities transferred to the 2 companies.
- (e) River Ltd. is to make a bonus issue of equity shares in the ratio of one equity share for every equity share held by making use of the revenue reserves.

Assume that the above scheme was duly approved by the Honourable High Court and that there are no other transactions. Ignore taxation.

You are asked to:

- (i) Pass journal entries in the books of River Ltd., and
- (ii) Prepare the balance sheets of the three companies giving all the information required by the Companies Act, 1956 in the manner so required to the extent of available information.

So	lution:

So	lution:	urnal of River Ltd.	ुज्योतिः	ी भिय (₹ in cro	res)
			3 -	Dr.	Cr.
1.	Moon Ltd. A/c		Dr.	2,400	
	To Investments A/c				1,200
	To Members A/c				1,200
•	eing transfer of investments at ag proved by the high court)	reed value of ₹ 800 c	crores under t	the scheme of	reconstruction
2.	Unsecured loans A/c		Dr.	1,800	
	To Moon Ltd.				1,800
				_	

(Being unsecured loans taken over by Moon Ltd. under the scheme of reconstruction approved by the

honourable high court)				
3. Members A/c	Dr.	600		
To Moon Ltd.			600	
(Being allotment by Moon Ltd. of 60 crore equity share the ratio of 4 equity shares of Moon Ltd. for every 5 ec				
4. Members A/c	Dr.	600		
To Capital Reserve A/c			600	
(Being balance in Members A/c transferred to capita	l reserve)			
4				
5. Sun Ltd. A/c	Dr.	30		
Provision for Depreciation A/c	Dr.	90		
Secured loans against Fixed Assets A/c	Dr.//	900		
Secured loans against working capital A/c	Dr.	300		
Current liabilities A/c	Dr.	5,100		
To Fixed Assets A/c		Z	1,800	
To Current Assets A/c			4,500	
To Capital Reserve A/c			120	
(Being assets and liabilities of new project division tran commitments of ₹ 2,100 crores, the difference betwee transferred assets and liabilities appeared being credit	n considera	tion and the boo		
6. Equity shares of Sun Ltd.	Dr.	30		
To Sun Ltd. A/c			30	
(Being the receipt of one crore equity shares of ₹ 10 er on transfer of assets and liabilities of the new project of	division)	तिर्गमय	harge of consideration	
7. Investment in debentures A/c	Dr.	1,500	1 500	
To Bank A/c			1,500	
(Being issue of unsecured convertible debentures by S	un Ltd., subs	scribed in full)		
8. Revenue reserves A/c	Dr.	750		
To Equity share capital A/c			750	
(Being allotment of 75 crores equity shares of ₹ 10 each as fully paid bonus shares to the members of the company by using revenue reserves in the ratio of one equity share for every equity share held)				

	Balance Sheet after the scheme of arrangement				
		Schedule	(₹in crores)		
		No.			
I	SOURCES OF FUNDS				
	(1) Shareholders' funds:				
	(a) Capital	A 1,500			
	(b) Reserves and surplus	B <u>2,220</u>			
			3,720		
	(2) Loan funds:	TA			
	(a) Secured against:	SIAC			
	Fixed assets				
	Working capital	4 500			
	(b) Unsecured				
	TOTAL		3 <u>,720</u>		
II	APPLICATION OF FUNDS				
	(1) Fixed assets:	⊃ c 4			
	(a) Gross block	600			
	(b) Less: Depreciation	510			
	(c) Net block		90		
	(2) Investments		30		
	(3) Current assets	4,500			
	Less: Current liabilities	<u>_510</u>			
	Net current assets		<u>3,600</u>		
	TOTAL	9 * 9	<u>3,720</u>		
	1. Capital commitments	मा माहि जिल्योत्रिद	Nil		
	2. Contingent Liability	तमरा ४ गामय			
	Guarantee given in res	pect of:			
	Capital commitments b	y Sun Ltd.	2,100		
	Liabilities transferred t	o Sun Ltd.	6,300		
	Liabilities transferred t	o Moon Ltd.	1,800		

River Ltd. Balance Sheet after the scheme of arrangement

Schedules to Accounts

₹ in crores)
000
500

Equity Shares of ₹ 10 each have been issued as bonus shares by capitalization of revenue reserves.

Β.	Reserves and Surplus:	
	Capital Reserve on transfer of:	
	Investments to Moon Ltd.	600
	Business of New project division to Sun Ltd.	<u>120</u>
		720
	Revenue Reserves:	
	As per last balance sheet 2,250	
	Less: Used for issue of fully paid bonus shares 750	<u>1,500</u>
		<u>2,220</u>
с.	Fixed assets:	
	Gross block:	
	As per last balance sheet	
	Less: Transfer to Sun Ltd.	600
	Provision for depreciation:	
	As per last balance sheet	
	Less: In respect of assets 🖉 🔶 🗮	
	transferred to Sun Ltd.	<u>510</u>
	तमला हि रिविमानमय	<u>90</u>
D.	Investments (at cost):	
	In wholly owned subsidiary Sun Ltd.	
	(a) 3 crore equity shares of ₹ 10 each	30
	(b) 15% unsecured convertible debentures	<u>1,500</u>
		<u>1,530</u>

	Schedule No		(₹in crores)
I. SOURCES OF FUNDS			х <i>,</i>
(1) Shareholders' funds:			
(a) Capital	А	30	
(b) Reserves and surplus			10
(2) Loan funds:			
(a) Secured loans	В	1,200	
(b) Unsecured loans	С	<u>1,500</u>	
			<u>2,700</u>
TOTAL	GT	AC	<u>2,730</u>
II. APPLICATION OF FUNDS	105		
(1) Fixed assets:			
(a) Goodwill (b) Other fixed assets		120 <u>1,710</u>	
(b) Other fixed assets		1,710	1,830
(2) Investments	1 <u>4</u> 1 T	T P	-
(3) Current Assets :	1 500	Z	
(a) Bank balance (b) Others	1,500 4,500		
	2	6,000	
Less: Current liabilities	5	5,100	
	Z		<u>900</u>
TOTAL			<u>2,730</u>
1. Capital commitments		= /6/	
2. Guarantee given by River	Ltd.		
in respect of:			
Capital commitments		2,100	
Liabilities	तमसा भा	<u>6,300</u>	
l			8,400
Schedules to Account	5		(₹ in crores)
A Share Capital			
Authorised			
300 crores Equity Shares of	₹10 each		<u>3,000</u>
Issued, Subscribed and Paie	d-up		
3 crore Equity Shares of ₹ 2	10		
each fully paid-up			30
(All the above shares have	been issued for		
consideration other than c	ash, on takeover		

Balance Sheet of Sun Ltd. after the scheme of arrangement

	of new project division from River Ltd.			
	All the above shares are held by the hol	ding company Riv	er Ltd.)	
В	Secured Loans			
	(a) Against fixed assets			900
	(b) Against working capital			<u>300</u>
_				<u>1,200</u>
С	Unsecured Loans			
	15% Unsecured convertible Debentures			1,500
	(Convertible into equity shares of			
	₹ 10 each at par on 31.3.2012)			
		CT AC		
	Balance Sheet of Moo	on Ltd. after the so	heme of arrange	ement
		edule No.	0	(₹ in crores)
	URCES OF FUNDS (1) Shareholders' funds:	S. S.		
	(a) Capital	A	600	
	(b) Reserves and surplus		+5	600
	(2) Loan funds:		2	000
	(a) Secured loans			
	(b) Unsecured loans		1,800	<u>1,800</u>
то	TAL			2,400
	PLICATION OF FUNDS			<u>2,400</u>
	TAL			<u>2,400</u> 2,400
Gu	arantee given by River Ltd. in respect of u	unsecured loans		1,800
			2	
	S	chedule to Accou	nts	
	9	* .		(₹ in crores)
A	Share Capital		Alter	
	Authorised	F V S	~ नातर्गमय	
	150 crores Equity Shares of ₹ 10 each	E S		<u>1,500</u>
	Issued, Subscribed and Paid-up			
	60 crores Equity Shares of ₹ 10			600
	each fully paid-up			

(All the above shares have been issued to members of River Ltd. for consideration other than cash, on acquisition of investments and taking over of liability for unsecured loans from River Ltd.)

Working Notes:			(₹	t in crores)	
1.	Established	Ne	ew Project	Total	
	Division		Division		
Fixed assets:					
Gross block	600		180	2,400	
Less: Depreciation	510		<u>90</u>	<u>600</u>	
	90		<u>1,710</u>	<u>1,800</u>	
Current assets	4,500		4,500	9,000	
Less: Current liabilities	_900		5 <u>,100</u>	<u>6,000</u>	
Employment of funds	3,000		(600)	3,000	
2. Guarantee by River Ltd. agair		40	<u> </u>		
(a) (i) Capital commitments	0	$\langle \varsigma \rangle$		700	
(ii) Liabilities transferred to	Sun Ltd.	NUL			
Secured loans against fix	ked assets	=	900		
Secured loans against w	orking capital	7	300		
Current liabilities	1 <u>2</u> / 1		5,100		
	5 1		S	6,300	
(b) Liabilities transferred to M	oon Ltd.			1,800	
Question 14	F I				
Globetrotters Ltd. has two di	visions – 'Inland' and	d 'Internati	onal'. The	Balance Sheet as	at 31st
December, 2011 was as under:	Z				
			ernational	Total	
Fixed Assets:	— (₹c	rores)	(₹crores)	(₹crores)	
Cost		300	300	600	
Depreciation		<u>250</u>	100	350	
W.D.V. (written dov Net Current Assets:	viri value)	50	200	250	
Current assets	तमसा गाहि	200	150	350	
Less: Current liabilit	ies	<u>100</u> 100	<u>100</u> <u>50</u>	<u>200</u> <u>150</u>	
		<u>150</u>	<u>250</u>	400	
Financed by:					
Loan funds:		_	50	50	
(Secured by a charge on fixed Own Funds:	d assets)				
Equity capital (fully paid up ₹	10 shares)			25	
Reserves and surplus				<u>325</u>	
		<u>?</u> 150	<u>?</u> 250	<u>350</u> <u>400</u>	

It is decided to form a new company 'Beautiful World Ltd.' for international tourism to take over the assets and liabilities of international division.

Accordingly 'Beautiful World Ltd.' was formed to takeover at Balance Sheet figures the assets and liabilities of international division. 'Beautiful World Ltd.' is to allot 2.5 crore equity shares of ₹ 10 each in the company to the members of 'Globetrotters Ltd.' in full settlement of the consideration. The members of 'Globetrotters Ltd.' are therefore to become members of 'Beautiful World' as well without having to make any further investment.

- (a) You are asked to pass journal entries in relation to the above in the books of 'Globetrotters Ltd.' and also in 'Beautiful World Ltd'. Also show the Balance Sheets of both the companies as on 1st January, 2012 showing corresponding figures, before the reconstruction also.
- (b) The directors of both the companies ask you to find out the net asset value of equity shares pre and post-demerger.
- (c) Comment on the impact of demerger on "shareholders wealth".

Solution: Journal of Globetrotters Ltd. (₹ in crores) (a) Cr. Particulars Dr. ₹ ₹ Dr. Current liabilities A/c 100 Loan fund (secured) A/c Dr. 50 Provision for depreciation A/c Dr. 100 Loss on reconstruction A/c (Balancing figure) 200 Dr. To Fixed assets A/c 300 To Current assets A/c 150 (Being the assets and liabilities of International division taken out of the books on transfer of the division to Beautiful World Ltd.; the consideration being allotment to the members of the company of one equity share of ₹ 10 each of that company at par for every share held in the company vide scheme of reorganisation) Journal of Beautiful World Ltd. (₹ in crores) Cr. Dr. ₹ ₹ Fixed assets A/c (400 - 100) 200 Dr. Current assets A/c Dr. 150 To Current liabilities A/c 100 To Loan funds (secured) A/c 50 To Equity share capital A/c 25 To Capital reserve A/c 175 assets and liabilities (Being the of International division of Globetrotters Ltd. taken over by Beautiful World Ltd. and allotment of 5 crore equity shares of ₹ 10 each at par as fully paid up to the members of Globetrotters Ltd.)

			Aft reconst		Be	n crores) fore truction
١.	SOU	RCES OF FUNDS				
	(1)	Shareholders' Funds				
		(a) Capital	25		25	
		(b) Reserves and Surplus (Schedule A)	<u>125</u>		<u>325</u>	
				150		350
	(2)	Loans Funds				
		Secured Loans				<u>50</u>
		Total		<u>150</u>		<u>400</u>
١١.						
	(1)	Fixed Assets				
		(a) Gross Block	300		600	
		(b) Less: Depreciation	<u>250</u>	50	<u>350</u>	250
	(2)	(c) Net block		50		250
	(2) (3)	Investments Current Assets	200	_	350	-
	(5)	Less: Current liabilities	200 <u>100</u>		<u>200</u>	
		Net current assets	100	<u>100</u>	200	<u>150</u>
		Total		<u>100</u> 150		<u>400</u>
				150		400
Schedule	to Bal	lance Sheet				
		E I			(₹i	n crores)
		After reconstruction	Be	fore		
			recons	truction		
		es and surplus	3	25		
l	Less: Lo	oss on reconstruction $\frac{200}{125}$				
			<u>3</u>	<u>25</u>		

Globetrotters Ltd. Balance Sheet as on 1st January, 2012

Note to Accounts: Consequent to reconstruction of the company and transfer of international division of Globetrotters Ltd. to newly incorporated Company Beautiful World Ltd., the members of the company have been allotted 5 crore equity shares of ₹ 10 each at par of 'Beautiful World Ltd.'

·		Beautiful World Ltd. Balance Sheet as on January 1, 2012	मिय	(₹ in crores)
١.	SOU	RCES OF FUNDS		(,
	(1)	Shareholder's Funds		
		(a) Capital (Schedule A)	25	
		(b) Reserves and Surplus	<u>325</u>	350
	(2)	Loans Funds		
		Secured Loans		<u>50</u>
		Total		<u>250</u>
١١.	APP	LICATION OF FUNDS		
	(1)	Fixed Assets		200
	(2)	Investments		_
	(3)	Current Assets	150	

		Less: Curren Net Curren				<u>100</u>	<u>50</u>	
		Net Current			Total		<u>50</u> 250	
	Sched	ule to Balance Sheet	t					
								(₹ in crores)
	Α.	Share Capital:						
		Issued and paid up of	capital:					
		2.5 crore equity sha	res of ₹ 10 each fu	ılly paid	up			25
		(All the above en consideration other and Tours Ltd. on ta	r than cash to the	membe	ers of Travels			
(b)	Net A	sset Value of an equ	uity share		60			
			6	F	Pre-Demerger	Post-D	emerger	
	Glob	etrotters Ltd.	40		Rs.350 crores .5 crore shares		0 crores re shares	
					=₹140	= ₹	₹ 60	
	Beau	ıtiful World Ltd.	Ë				0 crores re shares	
			E			-	₹80	

(c) Demerger into two companies has no impact on 'net asset value' of shareholding. Pre-demerger, it was ₹ 140 per share. After demerger, it is ₹ 60 + ₹ 80 = ₹ 140 per original share.

It is only the yield valuation that is expected to change because of separate focusing on two distinct businesses whereby profitability is likely to improve on account of de-merger.

Question 15

A Ltd. and B Ltd. were amalgamated on and from 1st April, 2011. A new company C Ltd. was formed to take over the business of the existing companies. The Balance Sheets of A Ltd. and B Ltd. as on 31st March, 2012 are given below:

				(₹. i	n lakhs)	
Liabilities	A Ltd.	B Ltd.	Assets	A Ltd.	B Ltd.	
Share Capital			Fixed Assets			
Equity Shares of ₹ 100 each	1,200	1,125	Land and Building	825	600	
12% Preference shares of			Plant and	525	375	
₹ 100 each	450	300	Machinery			
Reserves and Surplus			Investments	235	75	
Revaluation Reserve	225	150	Current Assets, Loans			
General Reserve	255	225	and Advances			
Investment Allowance	75	75	Stock	525	375	
Reserve						
Profit and Loss Account	75	45	Sundry Debtors	375	450	
Secured Loans			Bills Receivable	75	75	
10% Debentures (₹ 100 each)	90	45	Cash and Bank	450	300	

Current Liabilities and				
provisions				
Sundry Creditors	405	180		
Bills Payable	225	105		
	<u>3,000</u>	<u>2,250</u>	<u>3,000</u>	<u>2,250</u>

Additional Information:

- (1) 10% debenture-holders of A Ltd. and B Ltd. are discharged by C Ltd. issuing such number of its 15% Debentures of ₹ 100 each so as to maintain the same amount of interest.
- (2) Preference shareholders of the two companies are issued equivalent number of 15% preference shares of C Ltd. at a price of ₹ 150 per share (face value of ₹ 100).
- (3) C Ltd. will issue 5 equity shares for each equity share of A Ltd. and 4 equity shares for each equity share of B Ltd. The shares are to be issued @ ₹ 30 each, having a face value of ₹ 10 per share.
- (4) Investment allowance reserve is to be maintained for 4 more years.

Prepare the Balance Sheet of C Ltd. as on 1st April, 2012 after the amalgamation has been carried out on the basis of Amalgamation in the nature of purchase.

Solution:

		Balance Sheet of C Ltd. as at 1st April, 2012				
		0	(₹	In lakhs)		
Liabilities		Amount	Assets	Amount		
SHARE CA	PITAL		FIXED ASSETS			
1,05,00,00	00 Equity shares of		Goodwill	30		
₹10 each		1,050	Land and Building	1,425		
7,50,000 P	Preference shares of	750	Plant and Machinery	900		
			INVESTMENTS	300		
	ach (all the above		CURRENT ASSETS, LOANS			
shares are	allotted as fully		AND ADVANCES			
	oursuant to contracts					
•	ayment being	1				
received ir	,					
	AND SURPLUS		A. Current Assets			
	Premium Account	2,475	Stock	900		
	nt Allowance	150	Sundry debtors	825		
Reserve			T P			
SECURED			Cash and Bank	750		
15% Debe	entures	90	B. Loans and			
		<u>а</u> .	Advances			
	ED LOANS	_	Bills Receivable	150		
	LIABILITIES AND		MISCELLANEOUS EXPENDITURE			
PROVISIO	-		(to the extent not written off or ad			
-	urrent Liabilities		Amalgamation Adjustment Accoun	t 150		
	cceptances	330				
	undry Creditors	585				
B P	rovisions					
		<u>5,430</u>		<u>5,430</u>		

Working Notes:

			(₹ in	lakhs)
			A Ltd.	B Ltd.
(1)	Comp	putation of Purchase consideration		
	(a)	Preference shareholders:		
		$\left(\frac{4,50,00,000}{100}$ i.e. 4,50,000 shares $\right) \times \text{Rs. 150 each}$	675	
		$\left(\frac{3,00,00,000}{100}$ i.e. 3,00,000 shares $\right) \times \text{Rs. 150 each}$		450
	(b)	Equity shareholders:		
		$\left(\frac{12,00,00,000 \times 5}{100}$ i.e. 60,00,000 shares \times Rs. 30 each	1,800	
		$\left(\frac{11,25,00,000 \times 4}{100}$ i.e. 45,00,000 shares \times Rs. 30 each	0	1,350
	Amou	unt of Purchase Consideration	2,475	<u>1,750</u>
(2)		Assets Taken Over	IZ I	
	Asset	s taken over: Land and Building	2825	600
		Plant and Machinery	Z 525	375
		Investments	25	75
		Stock	525	375
		Sundry Debtors	375	450
		Bills receivable	75	75
		Cash and bank	450	300
			3,000	2,250
		Less: Liabilities taken over:	<u> </u>	
		Debentures	60	30
			405 225	180 105
			460	
	Net a	issets taken over 👝 🔪 🔺 🗸	1,540	1,935
	Purch	hase consideration	1,650	1,800
	Good	will The	165	
	Capit	al reserve	ागमय	135

Note: Since Investment Allowance Reserve is to be maintained for 4 more years, it is carried forward by a corresponding debit to Amalgamation Adjustment Account in accordance with AS-14.

Question 16

D Ltd. and Y Ltd. decide to amalgamate and to form a new company DY Ltd. The following are their balance sheets as at 31.3.2012:

Liabilities	D Ltd.	Y Ltd.	Assets	D Ltd.	Y Ltd.
Share Capital			Fixed Assets	3,75,000	1,00,000
(₹ 100) each	5,00,000	3,00,000	Investments:		
General Reserve	50,000	25,000	750 Shares in Y Ltd	1,75,000	_
Investment Allowance			2,000 Shares in D		2,50,000
Reserve 20.000		15,000	Ltd	_	
12% Debentures			Current Assets	4,00,000	1,00,000
(₹ 100 each)	1,50,000	50,000		4,00,000	1,00,000
Sundry Creditors	30,000	10,000	AC		
	75,00,000	<u>4,00,000</u>		<u>7,50,000</u>	<u>4,00,000</u>

Calculate the amount of purchase consideration for D Ltd. and Y Ltd. and draw up the balance sheet of DY Ltd. after considering the following:

- (a) Fixed assets of D Ltd. are to be reduced by ₹ 25,000 and that of Y Ltd. are to be taken at ₹ 1,50,000.
- (b) 12% debentureholders of D Ltd. and Y Ltd. are discharged by DY Ltd. by issuing such number of its 15% debentures of ₹ 100 each so as to maintain the same amount of interest.
- (c) Shares of DY Ltd. are of ₹ 100 each.

Solution:

Calculation of Purchase consideration

(i) Value of Net Assets of D Ltd. and Y Ltd. as on 31st March, 2012

	D Ltd.	Y Ltd. ₹
Assets taken over:		× ×
Fixed Assets	3,50,000 1,50,000	
Current Assets	<u>2,00,000</u> 5,50,000 <u>50,000</u>	2,00,000
Less: Liabilities taken over:	$a \rightarrow * \land a$	
Debentures	1,20,000* 40,000**	
Sundry Creditors	<u>30,000</u> <u>1,50,000</u> <u>10,000</u>	<u>50,000</u>
	4,00,000	<u>1,50,000</u>
* $1,50,000 \times \frac{12}{100} \times \frac{100}{15} = \text{Rs}.$	1,20,000	

**
$$50,000 \times \frac{12}{100} \times \frac{100}{15} = \text{Rs.40},000$$

(ii) Value of Shares of D Ltd. and Y Ltd.

The value of shares of D Ltd. is \gtrless 4,00,000 plus 1/4 of the value of the shares of Y Ltd. Similarly, the value of shares of Y Ltd. is \gtrless 1,50,000 plus 2/5 of the value of shares of D Ltd. Let a denote the value of shares of D Ltd. and m denote the value of shares of Y Ltd. then

a = 4,00,000 + 1/4 m; and

m = 1,50,000 + 2/5 a.

Substituting the value of m, a = 40,000 + 1/4 (1,50,000 + 2/5 a) a = 4,00,000 + 37,500 + 1/10 a 9/10 a = 4,37,500 a = 4,86,111 m = 1,50,000 + 2/5 (4,86,111) m = 3,44,444

(iii) Amount of Purchase Consideration

	D Ltd. ₹	Y Ltd. ₹
	۲	۲
Total value of shares (as determined above) 🛛 🗛 🦳	4,86,112	3,44,444
Less: Internal investments:		
2/5 for shares held by Y Ltd.	1,94,445	
1/4 for shares held by D Ltd.		<u>86,111</u>
Amount due to outsiders	<u>2,91,667</u>	<u>2,58,333</u>
Burchase Consideration will be satisf	ied by DV Itd. a	s follows:

Purchase Considera	tion will be satisf	ied by DY Ltd. as	follows:

	D Ltd.	Y Ltd.
	₹	₹
In shares (of ₹ 100 each)	2,91,600	2,58,300
In cash	67	33
(iv) Net Amount of Goodwill/Capital Reserve		
	7 ₹	₹
Total Purchase Consideration	L /S/	
D Ltd.	2,91,667	
Y Ltd.	<u>2,58,333</u>	5,50,000
Less: Net Assets taken over		
D Ltd.	4,00,000	
Y Ltd.	<u>1,50,000</u>	<u>5,50,000</u>
जमसो मा	/ अभ्योतिर्गमग	Nil

(Alternatively, the calculations may be made separately for both the companies)

Balance Sheet of DY Ltd. as at 31st March, 2012

Liabilities	Amount	Assets	Amount
	₹		₹
Share Capital 5,499 shares of ₹ 100 each	5,49,900	Goodwill	-
(All the above shares are allotted as fully		Fixed Assets	5,00,000
paid-up for consideration other than cash)		Investments	_
Investment Allowance Reserve	35,000	Current Assets	2,49,900

15% Debentures			1,60,000	(2,50,000 – 67 ·	– 33)	
Sundry Creditors			40,000	Miscellaneous Expenditure		
				(to the extent r written off or adjusted):	not	
				Amalgamation		
				Adjustment Aco		
					35,00	<u>00</u>
			<u>7,84,900</u>		<u>7,84,90</u>	<u>00</u>
Question 17:The foll	owing are the	Balance She	ets of M L	td. and B Ltd. as	on 31st Decemb	er, 2011:
Liabilities	M Ltd.	B Ltd.	Assets		M Ltd.	B Ltd.
	₹	4 ₹			₹	₹
Share Capital		9	Fixed As:	sets	14,00,000	5,00,000
Equity Shares of ₹		U	Investme	ent:		
10 each	12,00,000	6,00,000	42.000.0		1 60 000	
10% Pref. Shares of ₹ 100 each	4,00,000	2,00,000		hares of B Ltd. ares of M Ltd.	1,60,000	 1,60,000
Reserves and	6,00,000	4,00,000	3,000 311		_	1,00,000
Surplus	0,00,000	1,00,000				
Secured Loans:			Cur <mark>ren</mark> t /	Assets:		
12% Debentures	4,00,000	3,00,000	Stock		4,80,000	6,40,000
Current Liabilities:	\`	Z	Deb <mark>tor</mark> s		7,20,000	3,80,000
Sundry Creditors	4,40,000	2,50,000	Bills Rec		1,20,000	40,000
Bills Payable	60,000	50,000	Cash at E	Bank	2,20,000	80,000

18,00,000

31,00,000

Fixed Assets of both the companies are to be revalued at 15% above book value. Stock in Trade and Debtors are taken over at 5% lesser than their book value. Both the companies are to pay 10% Equity dividend, Preference dividend having been already paid.

After the above transactions are given effect to, M Ltd. will absorb B Ltd. on the following terms:

(i) 8 Equity Shares of ₹ 10 each will be issued by M Ltd. at par against 6 shares of B Ltd.

18,00,000

- (ii) 10% Preference Shareholders of B Ltd. will be paid at 10% discount by issue of 10% Preference Shares of ₹ 100 each at par in M Ltd.
- (iii) 12% Debentureholders of B Ltd. are to be paid at 8% premium by 12% Debentures in M Ltd. issued at a discount of 10%.
- (iv) ₹ 60,000 is to be paid by M Ltd. to B Ltd. for Liquidation expenses. Sundry Creditors of B Ltd. include ₹ 10,000 due to M Ltd.

Prepare:

- (a) Absorption entries in the books of M Ltd.
- (b) Statement of consideration payable by M Ltd.

31,00,000

Solution:

(a) Absorption Entries in the	Books of M Ltd.	
	Dr.	Cr.
	₹	₹
Fixed Assets	Dr. 2,10,000	
To Revaluation Reserve		2,10,000
(Revaluation of fixed assets at 15% above book value)		
Bank Account	Dr. 12,000	
To Reserves and Surplus		12,000
(Dividend received from B Ltd. on 6,000 shares) 🕨 🦰 🤇		
Reserve and Surplus	Dr. 1,20,000	
To Equity Dividend		1,20,000
(Declaration of equity dividend @ 10%)		
Equity Dividend	Dr. 1,20,000	
To Bank Account		1,20,000
(Payment of equity dividend)	Ż	
Business Purchase Account	Dr. 7,20,000	
To Liquidator of B Ltd.	S	7,20,000
(Consideration payable for the business taken over from		
B Ltd.)		
Fixed Assets (115% ₹ 5,00,000)	Dr. 5,75,000	
Stock (90% ₹ 6,40,000)	Dr. 6,08,000	
Debtors	Dr. 3,80,000	
Bills Receivable	Dr. 40,000	
Cash at Bank	D r. 30,000	
(₹ 80,000 – ₹ 60,000 dividend paid + ₹ 10,000 dividend received)		
To Provision for Bad Debts		10,000
(5% of ₹. 3,80,000)	र्भे भयातेर्गम्म	19,000
To Sundry Creditors		2,50,000
To 12% Debentures in B Ltd.		3,24,000
To Bills Payable		50,000
To Business Purchase Account		7,80,000
To Investments in B Ltd.		1,60,000
To Capital Reserve (Balancing figure)		50,000
(Incorporation of various assets and liabilities taken		,
over from B Ltd. at agreed values and cancellation of		
investment in B Ltd. account, profit being credited to		
capital reserve)	-	
Liquidator of B Ltd.	Dr. 7,20,000	

To Fauity Shara	Conital				- 40.000	
To Equity Share	•				5,40,000	
To 10% Preferen	-		,	-	1,80,000	
Discharge of consideration	on for B Ltd.'	s business	<u> </u>			
Capital Reserve			Dr.	60,000		
To Bank Account	:				60,000	
(Payment of liquidation e	expenses)					
12% Debentures in B Ltd	. (₹ 3,00,000	× 108%)	Dr.	3,24,000		
Discount on Issue of Deb	entures		Dr.	36,000		
To 12% Debentu	res			3	3,60,000	
(Allotment of 12% Deber	itures to deb	oenture ho	olders at a			
discount of 10% to dis						
debentures)						
Sundry Creditors		6	Dr.	20,000		
To Sundry Debto	ors				20,000	
, (Cancellation of mutual c		6		\mathbf{X}	,	
			NH VE			
				Z		
(b) Statement of Con	sideration p	ayable by	MILtd.	3		
For equity shares	held by outs	iders		P		
Shares held by the	em 60,000 –	12,000 =	48, <mark>000</mark>	Z		
Shares to be allot	ted 🔁		<u>48,000</u>	× 8 = 64,000		
			6	S		
as 10,000 shares are 54,000₹(i).	already will	B Ltd; i.e		sue only 54,000	shares of ₹	10 each i.e
For 10% preference shares	s, to be paid	at 10% di	scount			
₹. 2,00,000 × 90			1,80,0	000 (ii)		
(10) (10) (10) (10) (10) (10) (10) (10)			1,00,0	(11)		
-			720.0			
Consideration am			7,20,0			
Note: It has been assumed	l that divide	nd on equ	ity shares have bee	en paid by both th	ne companie	es.
		m	1 1 Start			
Question 18: The followin	g are the Pa	lanco Sho	ats of PS Ltd and V	Vite as on 21.2	2012·(`in '	000c)
	-					0003)
Liabilities	RS Ltd.	XY Ltd.	Assets	RS Ltd.	XY Ltd.	
Shara Capitali	₹	₹	Fixed Accets not	₹	₹	
Share Capital: Equity Shares of ₹ 100	6,000	3,000	Fixed Assets net of depreciation	8,100	2,550	
each fully paid up	0,000	3,000	Investments	2,100	2,550	
Reserves and Surplus	2,400	_	Sundry Debtors	1,200	450	
10% Debentures	1,500	_	, Cash and Bank	750	_	
Loan from Financial			Profit and Loss	-	2,400	
Institutions	750	1,200	Account			
Bank Overdraft	-	300				
Sundry Creditors	900	900				
Proposed Dividend	<u>600</u> 12 150	5 400		12 150	5 400	

The Institute of Cost Accountants of India (ICAI) [Statutory Body under an Act of Parliament] Page 137

<u>12,150</u>

<u>5,400</u>

<u>5,400</u>

<u>12,150</u>

It was decided that XY Ltd. will acquire the business of RS Ltd. for enjoying the benefit of carry forward of business loss. After acquisition, XY Ltd. will be renamed as XYZ Ltd. The following scheme has been approved for the merger:

- (i) XY Ltd. will reduce its shares to ₹ 10 and then consolidate 10 such shares into one share of ₹ 100 each (New Share).
- (ii) Financial institutions agreed to waive 15% of the loan of XY Ltd.
- (iii) Shareholders of RS Ltd. will be given one new share of XY Ltd. in exchange of every share held in RS Ltd.
- (iv) RS Ltd. will cancel 20% holding of XY Ltd. Investments were held at ₹750 thousands.
- (v) After merger the proposed dividend of RS Ltd. will be paid to the shareholders of RS Ltd.
- (vi) Authorised Capital of XY Ltd. will be raised accordingly to carry out the scheme.
- (vii) Sundry creditors of XY Ltd. includes payable to RS Ltd. ₹ 3,00,000.

Pass the necessary entries to implement the scheme in the books of RS Ltd. and XY Ltd. and prepare a Balance Sheet of XYZ Ltd.

Solution:

Solution:		\	
Journal Entries in the boo	ks of RS Ltd	I.\	
			(₹ '000)
	Z	Dr.	(r. 000) Cr.
		₹	₹
10% Debentures A/c	Dr.	1,500	•
Loan from Financial Institutions A/c	Dr.	750	
Sundry Creditors A/c	Dr.	900	
Proposed Dividend A/c	Dr.	600	
Realisation A/c	Dr.	8,400	
To Fixed Assets A/c		/	8,100
To Investments A/c			2,100
To Sundry Debtors A/c	10/		1,200
To Cash and Bank A/c			750
(Transfer of assets and liabilities to realisation account)			
	/ 6		
Share Capital A/c	Dr. 6	,000	
Reserve and Surplus A/c A	Dr. 2	,400	
To Equity Shareholders A/c		9य	8,400
(Transfer of share capital, reserve and surplus to			
shareholders account)			
Equity Shareholders A/c	Dr.	750	
To Realisation A/c			750
(Cancellation of 20% holding of XY Ltd. held as			
investments)			
	D		
Shares in XYZ Ltd.	Dr. 6	6,000	6 000
To Realisation A/c $(Issue of shares by X/Z)$ in the ratio of $1 + 1$			6,000
(Issue of shares by XYZ Ltd. in the ratio of 1 : 1)			
Equity Shareholders A/c	Dr. 1	,650	
To Realisation A/c	ы. <u>т</u>	,000	1,650
(Transfer of loss on realisation)			1,000

Equity Shareholders A/c To Shares in XYZ Ltd. (Distribution of Shares of XYZ Ltd. among the shareholders)	Dr. 6,000	6,000
Journal Entries in the books of XY Ltd.	(₹ '000) Dr. ₹	Cr. ₹
Equity Share Capital (Face value – ₹ 100) A/c To Equity Share Capital (Face value – ₹ 10) A/c To Reconstruction A/c (Face value of equity shares of ₹ 100 each reduced to ₹ 10 each)	Dr. 3,000	300 2,700
Equity Share Capital (Face value – ₹ 10 each) A/c To Equity Share Capital A/c (Face value – ₹ 100 each) (Consolidation of 30,000 equity shares of ₹ 10 each to 3,000 equity shares of ₹ 100 each)	Dr. 300	300
Loan from Financial Institutions A/c To Reconstruction A/c (Waiver of 15%of loan by financial institutions)	Dr. 2180	180
Reconstruction A/c (2,700 + 180) To Profit and Loss A/c To Capital Reserve (Balance of Reconstruction account availed to write off the Profit and Loss Account)	Dr. 2,880	2,400 480
Proposed Dividend A/c To Bank A/c (Payment of Proposed dividend to shareholders of RS Ltd.)	Dr. 600	600
Fixed Assets A/c Other Investments A/c Sundry Debtors A/c Cash and Bank A/c	Dr. 8,100 Dr. 1,350 Dr. 1,200 Dr. 750	
To Reserves A/c To 10% Debentures A/c To Loan from Financial Institutions A/c To Sundry Creditors A/c To Proposed Dividend A/c To Business Purchase A/c (Incorporation of various assets and liabilities acquired from RS Ltd. after cancellation of investment held by RS Ltd. in XY Ltd., profit on acquisition credited to Reserves Account)		1,710 1,500 750 900 600 5,940
Business Purchase A/c To Liquidator of RS Ltd.	— Dr. 5,940	5,940

(Consideration Payable on business acquired from RS Ltd.)	_		
Liquidator of RS Ltd. To Equity Share Capital of XYZ Ltd. (Discharge of purchase consideration in the form of equity shares of XYZ Ltd.)	Dr.	5,940	5,940
Sundry Creditors A/c To Sundry Debtors A/c (Cancellation of intercompany owings)	Dr.	300	300

Balance Sheet of XYZ Ltd. as on 31st March, 2012 (immediately after acquisition)

		(₹ in 000's)
Liabilities	₹ A Assets	₹
Share Capital:	Fixed Assets net of depreciation	10,650
62,400 Equity Shares @₹100	Investments	1,350
each (5,940 + 60 + 240)	6,240 Sundry Debtors	1,350
Capital Reserve	1,680	
General Reserve	1,710	
10% Debentures	1,500	
Loan from financial institutions	1,770	
Bank Overdraft (300 – 750 + 60		
Sundry Creditors	<u>_1,500</u>	
	13,350	<u>13,350</u>
Working Notes:		₹
1. Original Share Capital of X	Y Ltd.	
30,000 Equity Shares of ₹	100 each	30,00,000
Share Capital of XY Ltd. af		
30,000 Equity Shares of ₹		3,00,000
2. Share Capital of XY Ltd. af		
3,000 Equity Shares of ₹ 1		3,00,000
3. Reduced value of holdings		
RS Ltd. was holding 20% o		
6,000 Equity Shares of ₹1		6,00,000
	600 Equity Shares of ₹ 100 each	60,000
4. Calculation of Purchase Co	nsideration	co oo ooo
	Ltd. 60,000 Equity Shares of ₹ 100 each	60,00,000
Exchange Ratio = 1 : 1		
No. of Equity Shares to	be given 60,000	
	-	
Less: No. of Equity Sha	es already held by RS Ltd. <u>600</u>	
	<u>59,400</u>	
Purchase consideration		
59,400 Equity Shares of	₹ 100 each	59,40,000

5.	Aggregate Reserves in the new company on acquisition		
	Reserves of RS Ltd. acquired		24,00,000
	Less: Loss on investments held by RS Ltd.		
	Value of investments cancelled	7,50,000	
	Less: Reduced value of shares of XY Ltd.	60,000	<u>6,90,000</u>
	Amount of Reserves to be carried to Balance Sheet		<u>17,10,000</u>
6.	Share Capital in Combined Balance Sheet of XYZ Ltd.		
	Holding of RS Ltd. (600 Equity Shares @ ₹. 100 each)		60,000
	Other Existing Shares (2400 Equity Shares of ₹. 100 eac	h)	2,40,000
	Given as Purchase Consideration (59,400 equity shares	@ ₹.100 each)	<u>59,40,000</u>
			<u>62,40,000</u>

7. It has been assumed that the bank overdraft and cash balance can be netted of.

Question 19: The Balance Sheet of MM Ltd. on 31st March, 2012 is as under:

Liabilities	₹	Assets	₹
Authorised, issued equity share capita		Goodwill	5,00,000
50,000 shares of ₹ 100 each	50,00,000	Plant and machinery	45,00,000
25,000 preference shares (7%) of		Stock	7,50,000
₹ 100 each	25,0 <mark>0,0</mark> 00	Debtors	18,75,000
Sundry creditors	18,7 <mark>5,0</mark> 00	Preliminary expenses	2,50,000
Bank overdraft	7,5 <mark>0,0</mark> 00	Cash	3,75,000
0)		Profit and loss account	17,50,000
	<u>1,00,00,000</u>		<u>1,00,00,000</u>

Two years' preference dividends are in arrears. The company had bad time during the last two years and hopes for better business in future, earning profit and paying dividend provided the capital base is reduced.

An internal reconstruction scheme as follows was agreed to by all concerned:

- (i) Creditors agreed to forego 50% of the claim.
- (ii) Preference shareholders withdrew arrear dividend claim. They also agreed to lower their capital claim by 20% by reducing nominal value in consideration of 9% dividend effective after reorganization in case equity shareholders' loss exceed 50% on the application of the scheme.
- (iii) Bank agreed to convert overdraft into term loan to the extent required for making current ratio equal to 2 : 1.

(iv) Revalued figure for plant and machinery was accepted as ₹. 37,50,000.

(v) Debtors to the extent of ₹. 10,00,000 were considered good.

(vi) Equity shares shall be exchanged for the same number of equity shares at a revised denomination as required after the reorganisation.

Show:

- (a) Total loss to be borne by the equity and preference shareholders for the reorganization;
- (b) Share of loss to the individual classes of shareholders;
- (c) New structure of share capital after reorganization;
- (d) Working capital of the reorganized Company; and
- (e) A proforma balance sheet after reorganization.

Solution:

(a) Loss to be borne by Equity and Preference Shareholders

	₹
Profit and loss account (debit balance)	18,75,000
Preliminary expenses	2,50,000
Goodwill	5,00,000
Plant and machinery (₹ 45,00,000 – ₹ 37,50,000)	7,50,000
Debtors (₹ 18,75,000 – ₹ 10,00,000)	8,75,000
Amount to be written off	41,25,000
Less: 50% of sundry creditors	8,75,000
Total loss to be borne by the equity and preference shareholders	<u>32,50,000</u>
(b) Share of loss to preference shareholders and equity shareholders	
Total loss of ₹ 32,00,000 being more than 50% of equity share capita	al i.e. ₹ 25,00,000.
Preference shareholders' share of loss = 20% of ₹ 25,00,000 = ₹ 5	5,00,000
Equity shareholders' share of loss (₹ 32,50,000 – ₹ 5,00,000) = <u>₹ 27,1</u>	<u>50,000</u>
Total loss	2,50,000
(c) New structure of share capital after reorganisation	
Equity shares:	₹
50,000 equity shares of ₹ 45 each, fully paid up	
(₹ 50,00,000 – ₹ 27,50,000)	22,50,000
Preference shares:	य
25,000, 9% preference shares of ₹ 80 each, fully paid up (₹ 25,00,000 – ₹ 5,00,000)	20.00.000
(< 25,00,000 - < 5,00,000)	<u>20,00,000</u> <u>42,50,000</u>
(d) Working capital of the reorganized company	42,50,000
Current Assets:	₹. ₹.
Stock	7,50,000
Debtors	10,00,000
Cash	<u>3,75,000</u>
Cash	<u>21,25,000</u>
Less: Current liabilities:	21,23,000
Creditors 8,75,0	000
The Institute of Cost Assountants of India (ICAI) [Statutory Pody under	

Bank overdraft	1,87,500	10,62,500
Working capital		<u>10,62,500</u>

Note:

Current ratio shall be 2 : 1, i.e. total current liabilities shall be 50% of Rs. 21,25,000 (i.e. Rs. 6,00,000 + 8,00,000 + 3,00,000) = Rs. 8,50,000. Therefore, Bank overdraft = Rs. 1,50,000 (Rs. 8,50,000 less creditors Rs. 7,00,000).

(e) B	(e) Balance Sheet of MM Ltd. (and reduced) as on 31st March, 2012					
Liabilities			₹	Assets		₹
Share Capital Authorise (issued and paid up)	ed			Fixed Asse	ts	
50,000 equity shares o	of₹45 each	GTA	22,50,000	Plant and	Machinery	37,50,000
25,000, 9% preference	e shares of ₹ 80	each	20,00,000	Current As	sets	
Unsecured loan	/ C	5/		Stock		7,50,000
Term loan with Bank	14		4,50,000	Debtors		10,00,000
Current liabilities				Cash		3,75,000
Bank overdraft			1,50,000	2		
Creditors			8,75,000			
	5		58,75,000	5		58,75,000
Question 20: The Balance	Sheets of Sprin	gitd and its		Winter Itd	as on 31st Mar	
as under:	Sheets of Spin	ig Liu. and its	subsidially	white Ltd.		cii, 2011 ale
	Spring Ltd.	Winter Ltd.	Ass	Oto	Spring Ltd.	Winter Ltd.
Liabilities	Spring Ltu.	winter Ltu.	A33		Spring Ltu.	winter Ltu.
	₹	₹			₹	₹
Equity shares of ₹ 10	4,80,000	2 <mark>,00,000</mark>	Goodwill		45,000	30,000
each			Plant and r			
10% Preference shares of ₹		28.000	Motor vehi	cles	1,20,000	50,000
10 each General reserve	70,000 55,000	38,000 42,000	Furniture a	nd	95,000	75,000
Profit and loss account	1,00,000	60,000	fittings		65,000	40,000
Bank overdraft	12,000	7,000	Investment	ts	2,60,000	45,000
Sundry creditors	43,000	48,000	Stock	पर्गमय	45,000	72,000
Bills payable		16,000	Cash at bar	nk	22,500	21,000
			Debtors		93,000	78,000
			Bills receiva	able	14,500	
	<u>7,60,000</u>	<u>4,11,000</u>			<u>7,60,000</u>	<u>4,11,000</u>
Details of acquisition of sh						
Nature of shares	1	No. of shares	Date		Cost of	
		acquired	acquisit	ion	acquisition ₹	
Preference shares		1,425	1.4.20	08	31,000	
Equity shares		8,000	1.4.20		95,000	
Equity shares		7,000	1.4.20		80,000	
Other information:		,			,	

- (i) On 1.4.2010 profit and loss account and general reserve of Winter Ltd. had credit balances of ₹ 30,000 and ₹ 20,000 respectively.
- (ii) Dividend @ 10% was paid by Winter Ltd. for the year 2009-2010 out of its profit and loss account balance as on 1.4.2010. Spring Ltd. credited its share of dividend to its profit and loss account.
- (iii) Winter Ltd. allotted bonus shares out of general reserve at the rate of 1 share for every 10 shares held. Accounting thereof has not yet been made.
- (iv) Bills receivable of Spring Ltd. were drawn upon Winter Ltd.
- (v) During the year 2010-2011 Spring Ltd. purchased goods from Winter Ltd. for ₹ 10,000 at a sale price of ₹ 12,000. 40% of these goods remained unsold at close of the year.
- (vi) On 1.4.2010 motor vehicles of Winter Ltd. were overvalued by ₹ 10,000. Applicable depreciation rate is 20%.
- (vii) Dividends recommended for the year 2010-2011 in the holding and the subsidiary companies are 15% and 10% respectively.

Prepare consolidated Balance Sheet as on 31st March, 2011.

Solution:

Consolidated Balance Sheet of Spring Ltd. and its subsidiary Winter Ltd. as on 31st March, 2011

		Amount			Amount
Liabilities	₹	₹	Assets	₹	₹
Share Capital	/0/		Fixed Assets		
Authorised, Issued and paid up capital		T	Goodwill		
48,000 equity shares of ₹ 10			Spring Ltd.	45,000	
each		4,8 <mark>0,0</mark> 00	Winter Ltd.	<u>30,000</u>	
70,000 10% preference shares	of₹			75,000	
10 each		7 <mark>0,0</mark> 00	Add: Goodwill on		
Minority Interest (W.N . 3)	Z	9 <mark>8,6</mark> 75	consolidation (W.N.	<u>19,750</u>	94,750
		Щ	2)		
Reserves and Surplus			Plant and Machinery		
General reserve (W.N. 5)		71,500	Spring Ltd.	1,20,000	
Profit and loss account (W.N. 4)	50,775	Winter Ltd.	50,000	1,70,000
Current Liabilities and Provision	ıs	X	Motor Vehicles		
Bank Overdraft			Spring Ltd.	95,000	
Spring Ltd.	12,000	<u>к Л</u>	Winter Ltd.		
Winter Ltd.	7,000	19,000	(75,000 – 10,000 +		
	C		2,000)	<u>67,000</u>	1,62,000
Sundry Creditors			Furniture & Fittings		
Spring Ltd.	43,000		Spring Ltd.	65,000	
Winter Ltd.	<u>48,000</u>	91,000	Winter Ltd.	40,000	1,05,000
Bills payable			Investments		
Winter Ltd.	16,000		Spring Ltd.		
Less: Mutual debt	<u>14,500</u>	1,500	(2,60,000 – 2,06,000)	54,000	
Proposed Dividend			Winter Ltd.	<u>45,000</u>	99,000
Equity	72,000		Current assets, loans		
Preference	7,000	79,000	and advances		

			Current assets		
			Stock		
			Spring Ltd.	45,000	
			Winter Ltd.	72,000	
				1,17,000	
			Less: Unrealised profit	800	1,16,200
			Debtors		
			Spring Ltd.	93,000	
			Winter Ltd.	78,000	1,71,000
			Cash at Bank		
		GTA	Spring Ltd.	22,500	
		0	Winter Ltd.	21,000	43,500
			Loans and advances		
		4	Bills receivable		
			Spring Ltd.	14,500	
			Less: Mutual Debt	<u>14,500</u>	Nil
Woi	rking I	Notes: <u>9,61,450</u>	NT		<u>9,61,450</u>
(1)	Anal	ysis of Profits of Winter Ltd.	Capital	Revenue	Revenue
			Profits	Reserve	Profit
		\www.interface.com/	₹₹₹	₹	₹
	(a)	General Reserve as on 1.4.2010	20,000		
		Less: Bonus issue (1/10 of ₹ 2,00,000)	<u>20,000</u> –	-	
	(b)	Addition to General Reserve during 2010-2011	1.5		
		(₹ 42,000 – ₹ 20,000)		22,000	
	(c)	Profit and Loss Account balance as on 1.4.2010	30,000		
		Less: Dividend paid for the year 2009-2010	<u>20,000</u> 10,000		
	(d)	Profit for the year 2010-2011 (₹ 60,000 – ₹ 10,000)	र्भातर्गमय 		50,000
	(e)	Adjustment for over valuation of motor vehicles	(10,000)		
	(f)	Adjustment of revenue profit due to overcharged depreciation (20% on ₹ 10,000)			2,000
	(g)	Preference dividend for the year 2010-2011 @ 10%			<u>(3,800)</u>
				<u>22,000</u>	<u>48,200</u>
		Spring Ltd.'s share (3/4)		16,500	36,150
		Minority Interest (1/4)		5,500	<u>12,050</u>
				<u>22,000</u>	<u>48,200</u>

(2)	Cost of Control	₹	₹
	Cost of investments in Winter Ltd.		2,06,000
	[8,000 + 7,000 + (10% of 15,000)] × ₹ 10	65,000 14,250	
	Pre-acquisition dividend [*]	7,000	<u>1,86,250</u>
	Cost of control/Goodwill		19,750
(3)	Minority Interest		
(-)	Equity share capital $[\overline{\mathbf{T}} 50,000 + \overline{\mathbf{T}} 5,000 \text{ (Bonus)}]$ Preference share capital $(\overline{\mathbf{T}} 38,000 - \overline{\mathbf{T}} 14,250)$ Share of revenue reserve		55,000 23,750 5,500
	Share of revenue profit		12,050
	Proposed preference dividend	3	2,375
		P	<u>98,675</u>
(4)	Profit and Loss Account – Spring Ltd.	Z	
	Balance		1,00,000
	Share in profit of Winter Ltd.	S	36,150
	Share in proposed preference dividend of Winter Ltd.	9	<u> </u>
	Less: Pre-acquisition dividend credited to profit and loss account	7,000	
	Unrealised profit on stock (40% of ₹ 2,000)	800	
	Proposed equity dividend	72,000	
	Proposed preference dividend	7,000	<u>86,800</u>
			<u>50,775</u>
(5)	General reserve – Spring Ltd. Ref	तर्गमय	
	Balance		55,000
	Add: Share in Winter Ltd.		<u>16,500</u>
			<u>71,500</u>

Note: No information has been given in the question regarding date of bonus issue by Winter. It is also not mentioned whether the bonus shares are issued from pre-acquisition general reserve or post-acquisition general reserve. The above solution is given on the basis that Winter Ltd. allotted bonus shares out of pre-acquisition general reserve.

 $^{^{*}}$ The dividend on 7,000 shares only (acquired on 1.4.2010) is a pre-acquisition dividend.

The Institute of Cost Accountants of India (ICAI) [Statutory Body under an Act of Parliament] Page 146

Question 21

X Ltd. purchases its raw materials from Y Ltd. and sells goods to Z Ltd. In order to ensure regular supply of raw materials and patronage for finished goods, X Ltd. through its wholly owned subsidiary, X Investments Ltd. acquires on 31st December, 2010, 51% of equity capital of Y Ltd. for ₹ 150 crores and 76% of equity capital of Z Ltd. for ₹ 300 crores. X Investments Ltd. was floated by X Ltd. in 2004 from which date it was wholly owned by X Ltd.

The following are the Balance Sheets of the four companies as on 31st December, 2010:

	X Ltd.		х		Y Ltd.		Z Ltd.	
			s Ltd.	tment				
(₹ in crores)	₹		s Liu. ₹		₹		₹	
Share Capital:	·		·		•		·	
Equity (Fully paid) ₹ 10 each	250		50		100		150	
Reserves and Surplus	750	100	200	250	150	250	200	350
Loan Funds:	3							
Secured	150		1		50		200	
Unsecured	<u>100</u>	250		500	<u>100</u>	<u>150</u>	<u>150</u>	<u>350</u>
Total Sources		1250		750	200	400	100	700
Fixed Assets:		57						
Cost	600		_		150		300	
Less: Depreciation	<u>350</u>	<mark>250</mark>		44	70	80	<u>170</u>	130
Investments at cost in Equity								
Shares, fully paid								
X Investments Ltd.		50		- 0		-		-
Y Ltd.		-		150		-		-
Z Ltd.		-		300		-		-
Other Companies					/			
(Market Value ₹ 1160 Cr.)				290		-		-
Net Current Assets:	1050		10	\leq	000		2000	
Current Assets	1050	050	10		960 640	220	2000	E 70
Current Liabilities	<u>100</u>	<u>950</u>	Æ	<u>10</u>	<u>640</u>	<u>320</u>	1430	<u>570</u>
		<u>1250</u>		<u>750</u>		400		700

There are no intercompany transactions outstanding between the companies. You are asked to prepare consolidated balance sheet as at 31st December, 2010 in vertical form.

Solution:

L

Consolidated Balance Sheet of X Ltd. and its subsidiaries

X Investments Ltd., Y Ltd. and Z Ltd. as at 31st December, 2010

			(₹ in crores)
SOURCE	S OF FUNDS		
(1) Sh	areholders' funds:		
(a)	Capital	250.00	
(b)	Reserves and surplus	950.00	
			1200.00
(2) Mi	nority interest in:		
(a)	Y Ltd.	122.50	
(b)	Z Ltd.	84.00	

				206.50
	(3)	Loan funds:		
		(a) Secured loans	400.00	
		(b) Unsecured loans	850.00	
				<u>1,250.00</u>
	тот	AL		<u>2,656.50</u>
П	APP	LICATION OF FUNDS		
	(1)	Fixed assets:		
		(a) Goodwill on consolidation of:		
		Y Ltd.	22.50	
		Z Ltd.	<u>34.00</u>	
		T	56.50	
		(b) Others:	AC	
		Gross block	1,050.00	
		Less: Depreciation	<u> </u>	
		4	<u>460.00</u>	
		/0/ (516.50
	(2)	Investments at cost		290.00
		(in equity shares of other companies -	1	
		Market value ₹ 116 crores)		
	(3)	Current assets	4,020.00	
		Less: Current liabilities	<u>2,170.00</u>	
		Net current assets		<u>1,850.00</u>
		TOTAL		<u>2,656.50</u>
			L /S/	
Worl	king N	lotes:		
(A)			X Investm	ents Ltd.
				(₹ in crores)
(1)		Analysis of Profits and Share	+ / 0	
		Capital:		
		मसो मा	Capital Revenue	
		art	Profit Profit	
		(i) Y Ltd.	150.00 –	100.00
		Minority Interest (49%)		
		Share of X Investments Ltd.	<u>76.50</u>	51.00
		(ii) Z Ltd.	200.00 –	150.00
		Minority Interest (24%)		36.00
<i>(</i> -)		Share of X Investments Ltd.	<u>152.00</u>	_
(2)		Cost of Control:	Y Ltd.	Z Ltd.
		Cost of investments	150.00	300.00
		Less: Paid up value of shares 51.00	114.00	
		Capital profits 76.50	<u>152.00</u>	2 2 2 2
			<u>127.50</u>	<u>266.60</u>

	Goodwill on consolidation	22.50	34.00
(3)	Minority interest	Y Ltd.	Z Ltd.
	Share Capital	49.00	36.00
	Capital Profits	73.50	48.00
	Revenue Profits		
		<u>122.50</u>	<u>84.00</u>

(4)

Group Balance Sheet of X Investments Ltd. and its subsidiaries

Y Ltd. and Z Ltd. as at 31st December, 2010

			(₹ in crores)
I.	SOU	JRCES OF FUNDS	
	(1)	Shareholders' funds:	
		(a) Capital 50.00	
		(b) Reserves and surplus <u>200.00</u>	
		4	250.00
	(2)	Minority interest in:	
		(a) Y Ltd. 122.50	
		(b) Z Ltd. 84.00	
		15 I Z	206.50
	(3)	Loan funds:	
		(a) Secured loans 250.00	
		(b) Unsecured loans 750.00	
			<u>1,000.00</u>
	тот		<u>1,456.50</u>
II		LICATION OF FUNDS	
	(1)	Fixed assets:	
		(a) Goodwill on consolidation of: Y Ltd. 22.50	
		Z Ltd. 56.50	
		(b) Others:	
		Gross block 450.00	
		Less: Depreciation <u>240.00</u>	
		<u>210.00</u>	
			266.50
	(2)	Investments at cost	290.00
		(Market value ₹ 116 crores)	
	(3)	Current assets 2,970.00	
		Less: Current liabilities 2,070.0	
		Net current assets	900.00
		TOTAL	<u>1,456.50</u>

(B)	х	Ltd.	
(i)	Analysis of Profits of X Investments Ltd.:		
		Capital Profit	Revenue Profit
	Reserves and Surplus	-	200
	Minority Interest	_	_
	(X Investments Ltd. being wholly owned subsidiary of X Ltd.)		
(ii)	Minority Interest in X Investments Ltd.	-	_
(iii)	Cost of Control:		
	Cost of investments in X Investments Ltd.		50
	Less: Paid-up value of shares held in X Investments Ltd. by X Ltd.	50	
	Capital Profit		50
	Cost of Control		
Questio	n 22		

Question 22

From the following Balance Sheets of a group of companies and the other information provided, draw up the consolidated Balance Sheet as on 31.3.2011. Figures given are in ₹ Lakhs:

		<u> </u> <u>µ</u>	Bala	ance Sheets as on 31.3.2011			
	х	Y	Z	Z	х	Y	Z
Shares capital (in				Fixed Assets less	715	825	550
shares of ₹ 10 each)	1,650	1,100	550	depreciation			
Reserves	275	220	165	Cost of investment in Y Ltd.	990	_	_
Profit and loss balance	330	275	220	Cost of investment in Z Ltd.	220	_	_
Bills payables	55		27.5	Cost of investment in Z Ltd.	-	440	_
Creditors	165	55	50	Stock	275	110	110
Y Ltd. balance	_	_	82.5	Debtors	385	55	110
Z Ltd. balance	275		~~	Bills receivables	_	55	110
			AL	Z Ltd. balance	_	55	_
		नमसा		X Ltd. balance	_	_	165
			P	Cash and bank balance	165	110	<u> </u>
	<u>2,750</u>	<u>1,650</u>	<u>1,100</u>		<u>2,750</u>	<u>1,650</u>	<u>1,100</u>

a) X Ltd. holds 8,80,000 shares and 1,65,000 shares respectively in Y Ltd. and Z Ltd.; Y Ltd. holds 3,30,000 shares in Z Ltd. These investments were made on 1.7.2010 on which date the provision was as follows:

Y Ltd.	Z
	Ltd.
110	55
165	88
	110

b) In December, 2010 Y Ltd. invoiced goods to X Ltd. for ₹ 220 lakhs at cost plus 25%. The closing stock of X Ltd. includes such goods valued at ₹ 27.5 lakhs.

c) Z Ltd. sold to Y Ltd. an equipment costing ₹ 132 lakhs at a profit of 25% on selling price on 1.1.2011. Depreciation at 10% per annum was provided by Y Ltd. on this equipment.

- d) Bills payables of Z Ltd. represent acceptances given to Y Ltd. out of which Y Ltd. had discounted bills worth ₹ 16.5 lakhs.
- e) Debtors of X Ltd. Include ₹ 16.5 lakhs being the amount due from Y Ltd.
- f) X Ltd. proposes dividend at 10%.

Solution:

Consolidated Balance Sheet of X Ltd.

and its subsidiaries Y Ltd. and Z Ltd. as at 31st March, 2011

			(₹ in lakhs)	
Liabilities	Amount	Assets	Amount	
Share capital	1,650.00	D Fixed Assets		
Minority Interest	603	X Ltd.	715.00	
Y Ltd.	346.94	Y Ltd.	825.00	
Z Ltd.	<u>89.21</u> 436.1	Z Ltd.	<u>550.00</u>	
Capital Reserve	73.70		2,090.00	
	101	Less: Unrealised profit	<u>42.90</u> 2,0	47.10
Other Reserves	448.80			
Profit and Loss Account	312.9	5 X Ltd.	275.00	
Bills Payables	U C	Y Ltd.	110.00	
X Ltd.	55.00	Z Ltd.	<u>110.00</u>	
Y Ltd.	<u> 27.50 </u>	* ~ @	495.00	
Less: Mutual	82.50 मा	Less: Unrealised profit Debtors	<u>5.5</u> 4	89.50
indebtedness	71.50)		
		X Ltd.	385.00	
Creditors		Y Ltd.	55.00	
X Ltd.	165.00	Z Ltd.	110.00	
Y Ltd.	55.00		550.00	
Z Ltd.	<u>55.00</u>	Less: Mutual		

			indebted	dness	27.50	522.50
	275.00		Cash and	Bank		330.00
Less: Mutual			Balances Bills Receivab	les		
indebtedness						
	27.50	247.50	Y Ltd.		55.00	
Current Account			Z Ltd.		<u>110.00</u>	
Balances					165.00	
X Ltd.	275.00		Less: Mutual			
			indebted	lness	11.00	154.00
Z Ltd.	82.50	<u>_</u> 51	AC			
2 200	357.50	5				
	357.50	1	SWE			
Less: Mutual indebtedness				Z		
(55+165)	<u>220.00</u>	137.50		5		
Proposed Dividend	E	165.00		Z		
	121	<u>3,543.10</u>				<u> </u>
Working Notes:	E					
working Notes.	0				(₹ in ∣	akhs)
(1) Analysis of Profits of	z Ltd.		Capita	l Reven		venue
			Profit		ve	profit
Reserves on 1.7.2010			55.00			
Profit and Loss A/c or	ו 1.7.2010		88.00			
Increase in Reserves			* /	110.		
Increase in Profit						<u>32.00</u>
	Hand	मा	143.00			32.00
Less: Minority Interes	st (10%)	-6	14.30			<u>13.20</u>
			<u>128.70</u>			<u>18.80</u>
Share of X Ltd.			42.90			39.60
Share of Y Ltd.			85.80) 66.	00	79.20
(2) Analysis of Profits of	Y Ltd.					
Reserves on 1.7.2010			110.00)		
Profit and Loss A/c or	1.7.2010 I		165.00)		
Increase in Reserves				110	00	
Increase in Profit					<u> </u>	<u>10.00</u>
			275.00	0 110	00 1	10.00
Share in Z Ltd.				66.	<u>00</u>	79.20

	Less: Minority Interest (20%) Share of X Ltd.	275.00 <u>55.00</u> <u>220.00</u>	176.00 <u>35.20</u> <u>140.80</u>	189.20 <u>37.84</u> <u>151.36</u>
(3)	Cost of Control			
	Investments in Y Ltd.			990.00
	Investments in Z Ltd.			<u>660.00</u>
	Less: Paid up value of investments			1,650.00
	in Y Ltd.	880.00		
	in Z Ltd.	495.00	1,375.00	
	Capital Profit		_);;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
	in Y Ltd.	220.00		
	in Z Ltd.	A <u>128.70</u>	<u>348.70</u>	<u>1,723.70</u>
	Capital Reserve	<u>~ C /</u>		73.70
(4)	Minority Interest	Y Ltd.	Z Ltd.	
. ,	Share Capital	220.00	55.00	
	Capital Profit / 0/ C	55.00	14.30	
	Revenue Reserves	35.20	11.00	
	Revenue Profits	37.84	13.20	
		348.04	93.50	
	Less: Unrealised profit on stock (20% of 5.5)	1.1		
	Unrealised profit on equipment (10% of 42.90)	4.29	
		<u>346.94</u>	<u>89.21</u>	
(5)	Unrealised Profit on equipment sale	/		
	Cost	132.00		
	Profit	44.00		
	Selling Price	<u>176.00</u>		
	Unrealised profit = $44 - 44 \times \frac{10}{100} \times \frac{3}{12} = 44.00 - 44$	1.1 = 42.90		
		L /		
(6)	Profit and Loss Account – X Ltd.			
	Balance	330.00	25-	
	Less: Proposed Dividend	<u>165.00</u>	्नय	
		165.00		
	Share in Y Ltd.	151.36		
	Share in Z Ltd.	<u>39.60</u>		
	Less Unrealized profit on any innert (00% of	355.96		
	Less: Unrealised profit on equipment (90% of 42.90)	38.61		
	.2.307	317.35		
	Less: Unrealised profit on stock $\begin{pmatrix} -25 \\ -25 \end{pmatrix}$			
	Less: Unrealised profit on stock $\left(27.50 \times \frac{25}{125} \times 80\%\right)$	4.4		
		312.95		

(7)	Reserves – X Ltd.	
	X Ltd.	275.00
	Share in Y Ltd.	140.80
	Share in Z Ltd.	33.00
		448.80

Question 23

Following are the Balance Sheets of Mumbai Limited, Delhi Limited, Amritsar Limited and Kanpur Limited as at 31st December, 2010:

	Liabilities	Mumbai	Delhi	Amritsar	Kanpur	
		Ltd.	Ltd.	Ltd.	Ltd.	
	Share Capital (₹ 100 face value)	1,00,00,000	80,00,000	40,00,000	1,20,00,000	
	General Reserve	40,00,000	8,00,000	5,00,000	20,00,000	
	Profit & Loss Account	20,00,000	8,00,000	5,00,000	6,40,000	
	Sundry Creditors	6,00,000	2,00,000	1,00,000	1,60,000	_
		1,76,00,000	98,00,000	51,00,000	1,48,00,000	_
	Assets					
	Investments :					
	30,000 shares in Delhi Ltd. 🛛 🛄	70,00,000	+	-	_	
	10,000 shares in Amritsar Ltd	22,00, <mark>000</mark>		- 12	_	
	5,000 shares in Amritsar Ltd. 🔵	14	10,00,000	- 12	_	
	Shares in Kanpur Ltd. @ ₹ 12 <mark>0</mark>	72,00, <mark>000</mark>	36,00,000	12,00,000	_	
	Fixed Assets	-	40,00,000	30,00,000	1,40,00,000	
	Current Assets	2,00, <mark>000</mark>	12,00,000	9,00,000	8,00,000	
		1,76,00, <mark>000</mark>	98,00,000	51,00,000	1,48,00,000	_
	Balance in General Reserve Accoun	t and Pro <mark>fit &</mark>	Loss Accou	nt, when sh	ares were pu	irchased in
	different companies were:	Mumbai	Delhi	Amritsar	Kanpur	
		Ltd.	Ltd.	Ltd.	Ltd.	
	General Reserve Account	20,00,000	4,00,000	2,00,000	12,00,000	
	Profit & Loss Account	12,00,000	4,00,000	1,00,000	1,20,000	
	Required :					
	Prepare the consolidated Balance Sho rounded off to the nearest rupee).	eet of the grou	p as at 31st [December, 2	000 (Calculati	ons may be
6-1	ution: Consolidated Balance Sheet of	Advertised		diaria Dalk	.: I to al	امتد امقا سم
501	Kanpur Ltd. as at 31st December, 20		and its subs	idiaries Deir	ii Lia., Amriis	ar Llu. and
	Liabilities	_• ₹ Ass	ets		₹	
			odwill		12,75,000	
	(Fully paid shares of ₹ 100 each)	-	ed Assets		10,00,000	
		,50,625 Cur	rent Assets		31,00,000	
		,02,083				
		,62,292				
		,60,000				
	· · · · · · · · · · · · · · · · · · ·	,75,000		2,	53,75,000	
	<u> </u>			<u> </u>		

Working Notes:

(i) Analysis of profits of Kanpur Ltd.

(1)	Analysis of profits of Kalipur Ltd.			
		Capital	Revenue	Revenue
		Profit	Reserve	Profit
		₹	₹	₹
	General Reserve on the date			
	of purchase of shares	12,00,000		
	Profit and Loss A/c on the date of			
	purchase of shares	1,20,000		
	Increase in General Reserve	, , , - ,	8,00,000	
	Increase in profit		-,	5,20,000
		13,20,000	8,00,000	5,20,000
	Less : Minority Interest (1/6)	1,10,000.00	1,33,333	86,667
	2000	5,50,000.00	6,66,667	4,33,333
	Share of Mumbai Ltd. (1/2)	3,30,000.00	4,00,000	2,60,000
	Share of Delhi Ltd. (1/4)	1,65,000.00	2,00,000	1,30,000
	Share of Amritsar Ltd. (1/12)	1,10,000	66,667	43,333
		1,10,000	00,007	-3,333
(ii)	Analysis of profits of Amritsar Ltd.			
(11)	Analysis of profits of Amintsar Etd.	Capital	Revenue	Revenue
		Profit ₹	Reserve ≠	Profit ₹
	Concerned Descention on the data E	ζ.		۲.
	General Reserve on the date	2 00 000		
	of purchase of shares	2,00,000		
	Profit and Loss A/c on the date of			
	purchase of shares	1,00,000		
	Increase in General Reserve		3,00,000	
	Increase in Profit and Loss A/c		4	4,00,000
	Share in Kanpur Ltd.		66,667	43,333
		3,00,000	3,66,667	4,43,333
	Less : Minority Interest (1/4)	75,000	91,667	1,10,833
	241	2,25,000	2,75,000	3,32,500
	Share of Mumbai Ltd. (1/2)	1,50,000	1,83,333	2,21,667
	Share of Delhi Ltd. (1/4)	75,000	91,667	1,10,833
(iii)	Analysis of profits of Delhi Ltd.			
		Capital	Revenue	Revenue
		Profit	Reserve	Profit
		₹	₹	₹
	General Reserve on the date			
	of purchase of shares	4,00,000		
	Profit and Loss A/c on the date of	,,-••		
	purchase of shares	4,00,000		
		.,,		

Increase in General Reserve	4,00,000	
Increase in Profit and Loss A/c	.,,.	4,00,000
Share in Kanpur Ltd.	2,00,000	1,30,000
Share in Amritsar Ltd.	91,667	1,10,833
	80,00,000 6,91,667	6,40,833
Less : Minority Interest (1/4)	2,00,000 1,72,917	1,60,208
Share of Mumbai Ltd. (3/4)	6,00,000 5,18,750	4,80,625
(iv) Cost of control		<u> </u>
Investments in		₹
Delhi Ltd.	70,00,000	
Amritsar Ltd.	32,00,000	
Kanpur Ltd.	1,20,00,000	
Kunpur Etd.	S A C 2,22,00,000	
Paid up value of investments in		
Delhi Ltd.	60,00,000	
Amritsar Ltd.	= 1 = 30,00,000	
Kanpur Ltd.	<u>1,00,00,000</u>	
Capital profits in	1,00,00	(1,90,00,000)
Delhi Ltd.	6,00,000	(1,50,00,000)
Amritsar Ltd.	2,25,000	
Kanpur Ltd.	<u>11,00,000</u>	(19,25,000)
Goodwill	11,00,000	12,75,000
		_12,75,000
(v) Minority interest		
Share Capital:		
Delhi Ltd. (1/4)	20,00,000	
Amritsar Ltd. (1/4)	10,00,000	
Kanpur Ltd (1/4)	20,00,000	50,00,000
	20,00,000	50,00,000
Share in profits & reserves		
(Pre and Post-Acquisitions)	All A Strate	
Delhi Ltd.	5,33,125	
Amritsar Ltd.	2,77,500	J
Kanpur Ltd.		12 50 625
Kanpur Ltu.	<u>4,40,000</u>	12,50,625
(vi) General Reserve — Mumbai Ltd.		62,50,625
Balance as on 31.12.2010 (given)		40,00,000
Share in		40,00,000
Delhi Ltd.		5 19 750
Amritsar Ltd.		5,18,750
		1,83,335
Kanpur Ltd.		4,00,000
		51,02,083

(vii)	Profit and Loss Account — Mumbai Ltd.	
	Balance as on 31.12.2010 (given)	20,00,000
	Share in	
	Delhi Ltd.	4,80,625
	Amritsar Ltd.	2,21,667
	Kanpur Ltd.	2,60,000
		29,62,292

Question 24: The following are the Balance Sheets of Arun Ltd., Brown Ltd. and Crown Ltd. as at 31.12.2010:

Arun Ltd. Brown Ltd.

Crown Ltd.

Lidointies.	Arun Llu.	DIOWII LLU.	CIOWII LLU.		
	₹	₹	₹		
Share Capital (Shares of ₹100 each)	10,80,000	7,20,000	4,32,000		
Reserves	1,44,000	72,000	54,000		
Profit and Loss Account	3,60,000	2,16,000	1,80,000		
Sundry Creditors	1,44,000	1,80,000	1,08,000		
Arun Ltd.		<u>72,000</u>	<u>57,600</u>		
Total	<u>17,28,000</u>	<u>12,60,000</u>	<u>8,31,600</u>		
Assets:	Π	P			
Goodwill	1 <mark>,44</mark> ,000	1,08,000	72,000		
Fixed Assets	5 <mark>,04</mark> ,000	3,60,000	4,32,000		
Shares in:					
Brown Ltd. (5,400 Shares)	6 <mark>,48</mark> ,000				
Crown Ltd. (720 Shares)	1 <mark>,08</mark> ,000				
Crown Ltd. (2,520 Shares)		3,74,000			
Due from: Brown Ltd.	86,400	2			
Crown Ltd.	57,600	۹'/ <u>-</u>			
Current Assets	<u>1,80,000</u>	<u>4,17,600</u>	<u>3,27,000</u>		
Total	17,28,000	12,60,000	<u>8,31,000</u>		
(i) All shares were acquired on 1.7.2010.	V V	त्यातर्गमय			
(ii) On 1.1.2010 the balances to the various acco	(ii) On 1.1.2010 the balances to the various accounts were as under:				
Particulars	Arun Ltd.	Brown Ltd.	Crown Ltd.		
	₹	₹	₹		
Reserves	72,000	72,000	36,000		
Profit and Loss account	36,000	(Dr.) 36,000	21,600		

(iii) During 2010, Profits accrued evenly.

Liabilities:

(iv) In August, 2010, each company paid interim dividend of 10%. Arun Ltd. and Brown Ltd. have credited their profit and loss account with the dividends received.

(v) During 2010, Crown Ltd. sold an equipment costing ₹ 72,000 to Brown Ltd. for ₹ 86,400 and Brown Ltd. in turn sold the same to Arun Ltd. for ₹ 93,600.

Prepare the consolidated Balance Sheet as at 31.12.2010 of Arun Ltd. and its subsidiaries. **Solution:**

	Consolidated Balance Shee	et of Arun Ltd	l. and its subsidiaries	as on 31.12.2010
Lia	bilities	₹	Assets	₹
Sha	are Capital (Shares of ₹ 100 each)	10,80,000	Goodwill (W. N. 5)	3,25,800
Mi	nority Interest (W. N. 4)	4,20,712	Fixed Assets	12,74,400
Res	serves (W. N. 8)	1,49,438	Current Assets	9,25,200
Pro	ofit & Loss A/c (W. N. 8)	4,57,650	Cash in Transit (W. N	l. 7) 14,400
Sur	ndry Creditors	<u>4,32,000</u>		
Woi 1.	rking Notes Shareholding Pattern	<u>25,39,800</u>	ACCO	<u>25,39,800</u>
	In Brown Ltd.:		Number of Shares	%age of Holding
	Arun Ltd.		5,400	75%
	Minority Interest		1,800	25%
	In Crown Ltd.:		Ź	
	Arun Ltd.		720	16.667%
	Brown Ltd.		2,520	58.333%
	Minority Interest		1,080	25%
2.	Analysis of apportionment of profit i	in Crown Lt <mark>d</mark> .		
(a)	Calculation of Unrealized Profit in Equ	uipment	L />/	
	Crown Ltd sold equipment to Brown	Ltd. at a profit	t of ₹ 14,400 and this v	would be apportioned to
				₹
	Arun Ltd.		4/0	2,399
	Brown Ltd.	-		8,401
	Minority Interest		/ ग्रेभ्यातेर्गमर	<u>3,600</u>
				<u>14,400</u>
	Brown Ltd sold the equipment to Aru	in Ltd. at a pro	ofit of ₹ 7,200. This wo	uld be apportioned to:
				₹

Arun Ltd.	5,400
Minority Interest	<u>1,800</u>
	<u>7,200</u>

The above amounts are to be deducted from the respective share of profits.

(b) Reserves

				₹	
	Closing balance		54,	000	
	Opening balance		<u>36,</u>	<u>000</u> C	apital Profit
	Current year Appropriation		<u>18,</u>	000	
	Apportionment of Profit from 1.	1.2010 to 30.6.202	10 <u>9,</u>	<u>000</u> C	apital Profit
	Apportionment of Profit from 1.	7.2010 to 31.12.20	010 <u>9,</u>	<u>000</u> R	evenue Reserve
(c)	Profit and Loss Account				
	Closing balance		1,8	0,000	
	Opening balance	T	2	1,600	Capital Profit
	Current year profits before inter			1,600	
	Apportionment of Profit from 1.	1.2010 to 30.6.202		0,800	
	Less: Interim Dividend	4		<u>3,200</u> 7,600	Capital Profit
	From 1.7.2010 to 31.12.2010	$O' \in$		0,800	Revenue Profit
				5	
<i>(</i> 1)				Z	
(d)	Apportionment of profits of Crov	' I I I I I I I I I I I I I I I I I I I		H	
		Pre-Acquisition	Post Acquisit		
		Capital Profit ₹	Revenue Re	serve ₹	Revenue Profit T
	Deserves				₹
	Reserves Profit & Loss Account	45,000 <u>79,200</u>	L /	9,000	
	FIGHT & LOSS ACCOUNT	<u>1,24,200</u>		<u>9,000</u>	<u>1,00,800</u> <u>1,00,800</u>
	Arun Ltd [16.667%]	<u>1,24,200</u> 20,700		1,499	<u>1,00,800</u> 16,799
	Brown Ltd. [58.333%]	72,450	. /	5,251	58,801
	Minority Interest [25%]	31,050		2,250	25,200
3.	Analysis of Profit of Brown Ltd	सो मा 31,030	/ ग्रिप्या	2,250	25,200
(a)	Reserves		19		
()			₹		
	Closing balance		72,000		
	Opening balance		72,000	(Capit	al Profit)
	Current year Appropriation		Nil	· ·	,
(h)	Profit and Loss Account				
(b)	Profit and Loss Account				7
	Closing balance				₹ 2,16,000
	Opening balance (Dr.)				2,16,000 <u>36,000</u>

Current year Appropriation after interim dividend	2,52,000
Interim Dividend	72,000
Profit before Interim Dividend	3,24,000
Less: Dividend from Crown Ltd.	<u>25,200</u>
	<u>2,98,800</u>
Apportionment of Profit from 1.1.2010 to 30.6.2010	1,49,400
Less: Interim Dividend	<u>72,000</u>
Capital profit	<u>77,400</u>
Apportionment of Profit from 1.7.2010 to 31.12.2010 (Revenue profit)	<u>1,49,400</u>

(c) Apportionment of Profit of Brown Ltd.

4.

65	Pre-Acquisition	Post-Acquisi	ition
	Capital Profit	Revenue	Revenue
	ANU/	Reserve	Profit
6	= = ₹	₹	₹
Reserves	72,000	- 1	
Profit & Loss Account		Z	
(Opening balance (-) 36,000 + 77,400)	41,400	3	1,49,400
Less: Unrealised Profit of Equipment from Crown Ltd.		S	(8,401)
Share of Post-Acquisition Profit of Crown Ltd.		5,251	<u>58,801</u>
	<u>1,13,400</u>	5,251	<u>1,99,800</u>
Arun Ltd. 75%	85,050	3,938	1,49,850
Minority Interest 25%	28,350	1,312	49,950
Minority Interest	¥ /		
	T	Brown	Crown Ltd.
तमसो मा	<u>अ</u> ज्योह	Ltd. गमय ₹	₹
Share Capital		1,80,000	1,08,000
Capital Profit		28,350	31,050
Revenue: Reserves		1,312	2,250
Profit & Loss Account		49,950	25,200
Unrealised Profit on Equipment		<u>(1,800)</u>	<u>(3,600)</u>
		<u>2,57,812</u>	<u>1,62,900</u>
	-		

Total Minority Interest: ₹ 2,57,812+ ₹ 1,62,900 = ₹ 4,20,712

5. Cost of Control

		Arun Ltd. in Brown Ltd. ₹	Arun Ltd. in Crown Ltd. ₹	Brown Ltd in Crown Ltd. ₹
	Amount Invested	6,48,000	1,80,000	3,74,400
	Less: Pre-acquisition dividend*	<u>54,000</u>	<u>7,200</u>	<u>25,200</u>
	Adjusted Cost of Investment (A)	<u>5,94,000</u>	<u>1,00,800</u>	<u>3,49,200</u>
	Share capital	5,40,000	72,000	2,52,000
	Capital Profit	<u>85,050</u>	<u>20,700</u>	<u>72,450</u>
		<u>6,25,050</u>	<u>92,700</u>	<u>3,24,450</u>
	(B)	STAC		
	Capital Reserve/Goodwill (A)-(B)	(31,050)	8,100	24,750
	Net Goodwill	₹ 1,800		
	Goodwill on Consolidation ₹ (1,44,000+ 1,	08,000+72,000+1,80	00) = ₹ 3,25,800	
6.	Dividend declared		E	
			Brown Ltd.	Crown Ltd.
			₹	₹
	Dividend declared		72,000	<u>43,200</u>
	Share of: Arun Ltd.		54,000	7,200
	Brown Ltd. 🕖			25,200
	Minority		18,000	10,800
7.	Inter-Company Transactions		\leq	
(a)	Owings		\mathbf{X}	
	(Y	Dr.	Cr.	Cr.
		Arun Ltd.	Brown Ltd.	Crown Ltd.
	मा मा	E	₹	₹
	Balance in books	1,44,000	72,000	57,600
	Less: Inter- co. owings	<u>1,29,600</u>	72,000	<u>57,600</u>
	Cash-in-transit	<u>14,400</u>	NIL	NIL
(b)	Fixed Assets			
				₹
	Total Fixed Assets			12,96,000
	Less: Unrealised Profit on sale of equip	oment		21,600
	Amount to be taken to consolidated Balan	ice Sheet		<u>12,74,400</u>

* The entire amount of interim dividend of 10 % has been treated as pre-acquisition dividend.

	Reserves	Profit and Loss A/c
	₹	₹
Balance in Books	1,44,000	3,60,000
Add: Shares of Post Acquisition Profits:		
From Brown Ltd.	3,938	1,49,850
From Crown Ltd	1,499	16,799
Less: Pre-Acquisition dividend:		
From Brown Ltd.		(54,000)
From Crown Ltd		(72,000)
Less: Unrealised Profit on Equipment:	AC	
From Brown Ltd.		(5,400)
From Crown Ltd.	AND A	(2,399)
0/ 6	<u>1,49,437</u>	<u>4,57,650</u>

8. Reserves and Profit and Loss Account balances in the Consolidated Balance Sheet

Question 25: The draft Balance Sheets of 3 Companies as at 31st March, 2011 are as below:

		Z	(In ₹ 000's)
Liabilities	Morning	Evening	Night Ltd.
	Ltd.	Ltd.	
Share Capital – shares of ₹ 100 each	1,00,000	50,000	25,000
Reserves	4,500	2,500	2,250
P/L A/c (1.4.10)	3,750	5,000	2,000
Profit for 2010-11	17,500	9,500	4,500
Loan from Morning Ltd.		12,500	
Creditors	<u>6,250</u>	2,500	3,500
	<u>1,32,000</u>	<u>82,000</u>	<u>37,250</u>
Assets			
Investments:	/ अज्यो	2.0	
4,00,000 shares in Evening	45,000	ेगमय-	-
1,87,000 shares in Night	20,000		-
Loan to Evening Ltd.	12,500	_	_
Sundry assets	<u>54,500</u>	<u>82,800</u>	<u>37,250</u>
	<u>1,32,000</u>	82,800	<u>37,250</u>

Following additional information is also available:

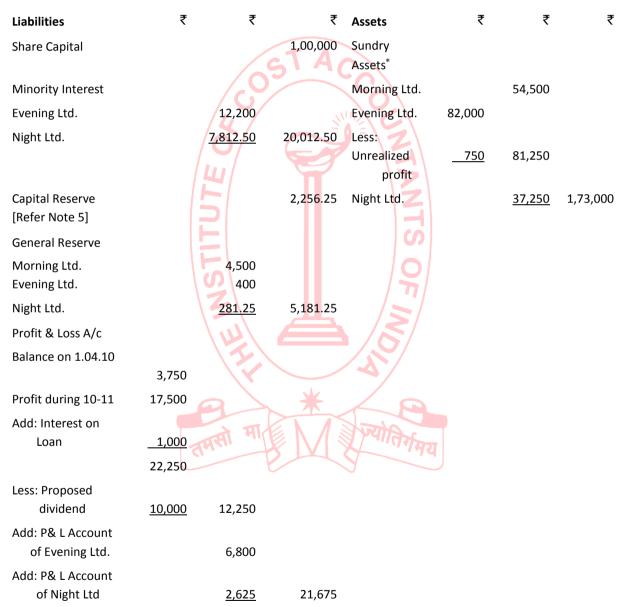
- (a) Dividend is proposed by each company at 10%.
- (b) Stock transferred by Night Ltd. to Evening Ltd. fully paid for was ₹ 20 lacs on which the former made a Profit of ₹ 7.5 lacs. On 31st March, 2011, this was in the inventory of the latter.
- (c) Loan referred to is against 8% interest. Neither Morning Ltd. nor Evening Ltd. has considered the interest.

- (d) Reserves as on 1.4.2010 of Evening Ltd. and Night Ltd. were ₹ 20,00,000 and ₹ 18,75,000 respectively.
- (e) Cash-in-transit from Evening Ltd. to Morning Ltd. was ₹1,00,000 as on 31.3.2011.
- (f) The shares of the subsidiaries were all acquired by Morning Ltd. on 1st April, 2010.
 Prepare consolidated Balance Sheet as on 31st March, 2011. Workings should be part of the answer.

Solution: Consolidated Balance Sheet of Morning Ltd. with its subsidiaries Evening Ltd. and Night Ltd.

```
As on 31<sup>st</sup> March, 2011
```

(₹ in thousand)



* The total of Sundry Assets of the Group mutually sets off the effect of Cash-in-transit of Rs.1 lac from Evening Ltd. to Morning Ltd. Hence, cash in transit has not been separately shown.

Moulings Notos:		<u>1,73,000</u>	<u>1,73,000</u>
Night Ltd. (Minority)	<u>625</u>	<u>11,625</u>	
Evening Ltd. (Minority)	1,000		
Morning Ltd.	10,000		
Proposed Dividend			
-			
Night Ltd	<u>3,500</u>	12,250	
Evening Ltd.	2,500		
Morning Ltd.	6,250		
Creditors			

Workings Notes:

- A. Morning Ltd.'s holding in Evening Ltd. is 4,00,000 shares out of 5,00,000 shares, i.e., 4/5th or 80%; Minority holding 1/5th or 20%.
- B. Morning Ltd.'s holding in Night Ltd. is 1,87,500 shares out of 2,00,000 shares, i.e., 3/4th or 75%; Minority holding 1/4th or 25%.

Analysis of Reserves and Profits of Subsidiary Companies

	ipital Reserve (pre-acquis serves and profits)	Sition	Evening Ltd. (₹'000)	Night Ltd ₹('000)	Minority interest in Evening Ltd. (1/5) ₹(′000)	Minority interest in Night Ltd. (1/4) ₹('000)
Re	eserves on 1.04.2010		2,000	1,87	5	
Pr	ofit on 1.04.2010	× / ×	<u>5,000</u>	<u>2,00</u>	<u>0</u>	
		R	7,000	3,87	5	
Le 2.	ss: Minority interest	तमसो म	<u>1,400</u> <u>5,600</u>	<u>968.7</u> 2,906.2		968.75
Ge	eneral Reserve					
Re	eserves as per Balance Sh	eet	2,500	2,50	0	
Le	ss: Capital Reserve [See N	lote A]	<u>2,000</u>	<u>1,87</u>	5	
			500	37	5	
Le	ss: Minority interest		100	93.7	<u>5</u> 100	37.5
			<u>160</u>	<u>281.2</u>	5	

3.	Profit and Loss Account					
	Profit for the year as per Balance Sheet	9,500	4,500			
	Less: Interest on Loan (12,500 × 8%)	1,000				
		8,500				
	Less: Minority Interest	1,700	1,125	1,750	1,125	
		6,800	3,375			
	Less: Unrealised profit on stock		<u>750*</u>			
	transfer	51 A	<u>c</u>			
		<u>6,800</u>	<u>2,625</u>			
4.		2				
	Share Capital					
	As per Balance sheet	50,000	25,000			
	Less: Minority interest	<u>10,000</u>	<u>6,250</u>	<u>10,000</u>	6,250	
	Transferred for computation of		5			
	Goodwill/Capital Reserve	<u>40,000</u>	<u>18,750</u>	13,200	8,437.50	
	Less: Proposed dividend shown separately			1,000	625	
	Transferred to Consolidated Balance Sheet			<u>12,200</u>	<u>7,812.50</u>	
5.	Computation of Cost of Control i.e. Good	will / Capit	al Reserve on c	onsolidat	ion	
				(₹	in thousand)	
			Evening Lte	d.		Nigh

	Evening Ltd.	Night Ltd.
Cost of Investments	45,000	20,000
Less: Paid up value of shares [Refer Note 4]	<u>40,000</u>	18,750
	5,000	1,250
Less: Capital Reserve [Refer Note 1]	5,600	<u>2,906.25</u>
	(500)	(1,656.25)
Total Capital Reserve (₹ 600 + ₹ 1,656.25)	2,256.25	

^{*} As per para 17 of AS 21, 'Unrealised profits resulting from intra-group transactions that are included in the carrying amount of assets, such as inventory and fixed assets, are eliminated in full.

The Institute of Cost Accountants of India (ICAI) [Statutory Body under an Act of Parliament] Page 165

Question No.26:

The Balance Sheets of R Ltd. for the years ended on 31.3.2009, 31.3.2010 and 31.3.2011 are as follows:

	31.3.2009	31.3.2010	31.3.2011
Liabilities	₹	₹	₹
3,20,000 Equity Shares of ₹ 10 each fully			
paid	32,00,000	32,00,000	32,00,000
General Reserve	24,00,000	28,00,000	32,00,000
Profit and Loss Account	2,80,000	3,20,000	4,80,000
Creditors	<u>12,00,000</u>	<u>16,00,000</u>	<u>20,00,000</u>
	<u>70,80,000</u>	<u>79,20,000</u>	88,80,000
Assets	A ₹	₹	₹
Goodwill	20,00,000	16,00,000	12,00,000
Building and Machinery			
(Less: Depreciation)	28,00,000	32,00,000	32,00,000
Stock	20,00,000	24,00,000	28,00,000
Debtors	40,000	3,20,000	8,80,000
Bank Balance	2,40,000	4,00,000	8,00,000
	<u>70,80,000</u> Z	<u>79,20,000</u>	<u>88,80,000</u>
Actual valuation were as under:	31.3.2009	31.3.2010	31.3.2011
	₹ 🕻	₹	₹
Building and Machinery	36,00,000	40,00,000	44,00,000
Stock	24,00,000	28,00,000	32,00,000
Net Profit (including opening balance) after		/	
writing off depreciation and goodwill, tax		1	
provision and transfer to General Reserve	8,40,000	12,40,000	16,40,000

Capital employed in the business at market values at the beginning of 2008–2009 was ₹ 73,20,000, which included the cost of goodwill. The normal annual return on Average Capital employed in the line of business engaged by R Ltd. is 15½%.

The balance in the General Reserve account on 1st April, 2008 was ₹ 20 lakhs.

The goodwill shown on 31.3.2009 was purchased on 1.4.2008 for ₹ 20,00,000 on which date the balance in the Profit and Loss Account was ₹ 2,40,000. Find out the average capital employed each year.

Goodwill is to be valued at 5 years purchase of super profits (Simple average method). Also find out the total value of the business as on 31.3.2011.

Solution:

Note:

- 1. Since goodwill has been paid for, it is taken as part of capital employed. Capital employed at the end of each year is shown below.
- 2. Assumed that the building and machinery figure as revalued is after considering depreciation.

3	31.3.2009	31.3.2010	31.3.201	1
	₹	₹	÷	₹

Goodwill	20,00,000	16,00,000	12,00,000
Building and Machinery (revalued)	36,00,000	40,00,000	44,00,000
Stock (revalued)	24,00,000	28,00,000	32,00,000
Debtors	40,000	3,20,000	8,80,000
Bank Balance	<u>2,40,000</u>	4,00,000	<u>8,00,000</u>
Total Assets	82,80,000	91,20,000	1,04,80,000
Less: Creditors	<u>12,00,000</u>	<u>16,00,000</u>	20,00,000
Closing Capital	70,80,000	75,20,000	84,80,000
Opening Capital	<u>73,20,000</u>	70,80,000	75,20,000
	<u>1,44,00,000</u>	<u>1,46,00,000</u>	<u>1,60,00,000</u>
Average Capital	72,00,000	73,00,000	80,00,000

Maintainable profit has to be found out after making adjustments as given below:

G	A 31.3.2009	31.3.2010	31.3.2011
03.	₹	₹	₹
Net Profit as given	8,40,000	12,40,000	16,40,000
Less: Opening Balance	2,40,000	2,80,000	3,20,000
	6,00,000	9,60,000	13,20,000
Add: Under valuation of closing stock	4,00,000	4,00,000	4,00,000
	10,00,000	13,60,000	17,20,000
Less: Adjustment for valuation in opening stock	- 2		
		<u>4,00,000</u>	4,00,000
	10,00,000	9,60,000	13,20,000
Add: Goodwill written-off		4,00,000	4,00,000
	10,00,000	13,60,000	17,20,000
Add: Transfer to Reserves	4,00,000	4,00,000	4,00,000
Z	14,00,000	17,60,000	21,20,000
Less: 15% Normal Return	10,80,000	<u>10,95,000</u>	<u>12,00,000</u>
Super Profit	3,20,000	<u>6,65,000</u>	<u>9,20,000</u>
Average super profits = (₹3,20,000 + ₹6,65	5,000 + ₹9,20,000) / 3		
= 19,05,000	0/ 3 = Rs 6,35,000		
Goodwill = 5 years purchase = ₹ 6,35,000 × 5 = ₹	31,75,000.		
मसो मा	र ज्योतिताल		
Total Net Assets (31/3/2002) 84,8	30,000		

Total Net Assets (31/3/2002)	84,80,000	
Less: Goodwill	12,00,000	
	72,80,000	
Add: Goodwill	<u>31,75,000</u>	
Value of Business	<u>1,04,55,000</u>	

Question 27:

On the basis of the following information, calculate the value of goodwill of Gee Ltd. at three years' purchase of super profits, if any, earned by the company in the previous four completed accounting years.

Balance Sheet of Gee Ltd. as at 31st March, 2011

54				
Liabilities	₹ in lakhs	Assets	₹ in lakhs	
Share Capital:		Goodwill	1,240	
Authorised	<u>30,000</u>	Land and Buildings	7,400	
Issued and Subscribed		Machinery	15,040	
20 crore equity shares of ₹	6	Furniture and Fixtures	4,060	
10 each, fully paid up	20,000	Patents and Trade Marks	128	
Capital Reserve	1,040	9% Non-trading Investments	2,400	
General Reserve	10,172	Stock	3,492	
Surplus i.e. credit balance of	µ	Debtors	2,456	
Profit and Loss (appropriation) A/c	1,908	Cash in hand and at Bank	2,184	
Trade Creditors	2,272	Preliminary Expenses	80	
Provision for Taxation (net)	88			
Proposed Dividend for 2009-2010	<u>3,000</u>			
	38,480		<u>38,480</u>	
The profits before tax of the four years have been as follows:				

Year ended 31st March 2007 2008 2009 2010 Profit before tax in lakhs of Rupees 12,760 10,000 12,432 11,600

The rate of income tax for the accounting year 2006-2007 was 40%. Thereafter it has been 38% for all the years so far. But for the accounting year 2010-2011 it will be 35%.

In the accounting year 2006-2007, the company earned an extraordinary income of \mathfrak{F} 4 crore due to a special foreign contract. In August, 2007 there was an earthquake due to which the company lost property worth \mathfrak{F} 200 lakhs and the insurance policy did not cover the loss due to earthquake or riots.

9% Non-trading investments appearing in the above mentioned Balance Sheet were purchased at par by the company on 1st April, 2008.

The normal rate of return for the industry in which the company is engaged is 20%. Also note that the company's shareholders, in their general meeting have passed a resolution sanctioning the directors an additional remuneration of ₹ 200 lakhs every year beginning from the accounting year 2010-2011.

Solution:

(1) Capital employed as on 31st March, 2011

(Refer to	'Note')
-----------	---------

					₹ in lakhs
	Land and Buildings				7,400
	Machinery				15,040
	Furniture and Fixtures				4,060
	Patents and Trade Marks				128
	Stock				3,492
	Debtors				2,456
	Cash in hand and at Bank				<u>2,184</u>
					34,760
	Less: Trade creditors		2,272		
	Provision for taxati	on (net) 🖊 🔼 🗸	A <u>88</u>		<u>2,360</u>
		05			<u>32,400</u>
(2)	Future maintainable profit		(Amount	s in lakhs of	f rupees)
		2006-07	2007-08	2008-09	2009-2010
		2000-07	2007-00	2008-05	2005-2010
		्र	₹	₹	₹
P	Profit before tax	12,760	10,000	12,432	11,600
				4	
L	ess: Extra-ordinary income d <mark>u</mark>				
	foreign contract	400		S	
			200		
P	dd: Loss due to earthquake	io) II	200	9	
	ess: Income from non-trading		/		
-					
	investments			216	216
			10,200	12,216	11,384
		<u>12,360</u>		/ <u> </u>	
			<u> </u>		

As there is no trend, simple average profits will be considered for calculation of goodwill. Total adjusted trading profits for the last four years = ₹ (12,360 + 10,200 + 12,216 + 11,384) = ₹ 46,160 lakhs

	तमसा मार्टि 🗸	₹ in lakhs	
	Average trading profit before tax = $\left(\frac{\text{Rs.46,160 lakhs}}{4}\right)$	11,540	
	Less: Additional remuneration to directors	200	
	Less: Income tax @ 35% (approx.)	3,969	(Approx)
		<u>7,371</u>	
(3)	Valuation of goodwill on super profits basis		
	Future maintainable profits	7,371	
	Less: Normal profits (20% of ₹ 32,400 lakhs)	<u>6,480</u>	

Super Profits

<u>891</u>

Goodwill at 3 years' purchase of super profits = 3 x ₹ 891 lakhs = ₹ 2,673 lakhs

Note:

In the above solution, goodwill has been calculated on the basis of closing capital employed (i.e. on 31st March, 2011). Goodwill should be calculated on the basis of 'average capital employed' and not 'actual capital employed' as no trend is being observed in the previous years' profits. The average capital employed cannot be calculated in the absence of details about profits for the year ended 31st March, 2011. Since the current year's profit has not been given in the question, goodwill has been calculated on the basis of capital employed as on 31st March, 2011.

Liabilities	As at	As at	Assets	As at	As at
	31.3.2010	31.3.2011		31.3.2010	31.3.2011
	₹ in lakhs	₹ in lakhs	NVII.	₹ in lakhs	₹ in lakhs
Share capital	1,500	1,500	Fixed assets	1,650	1,950
General reserve	1,200	1,275	10% investment	750	750
Profit and Loss	! !		Stock	780	900
account	180	270		Z	
18% term loan	540	495	D <mark>ebt</mark> ors	510	330
Sundry creditors	105	135	C <mark>ash</mark> at bank	138	135
Provision for tax	33	39	Fictitious assets	30	24
Proposed dividend	300	<u>375</u>		$ \mathbf{n} _{-}$	
	<u>3,858</u>	<u>4,089</u>		<u>3,858</u>	<u>4,089</u>
Additional information	n·			~/	

Question 28: The following is the extract from the Balance Sheets of Popular Ltd.:

Additional information:

- Replacement values of Fixed assets were ₹ 3,300 lakhs on 31.3.10 and ₹ 3,750 lakhs on 31.3.2011 respectively.
- (ii) Rate of depreciation adopted on fixed assets was 5% p.a.
- (iii) 50% of the stock is to be valued at 120% of its book value.
- (iv) 50% of investments were trade investments.
- (v) Debtors on 31st March, 2011 included foreign debtors of \$35,000 recorded in the books at ₹35 per U.S. Dollar. The closing exchange rate was \$ 1= ₹39.
- (vi) Creditors on 31st March, 2011 included foreign creditors of \$60,000 recorded in the books at \$ 1 = ₹33. The closing exchange rate was \$ 1 = ₹39.
- (vii) Profits for the year 2010-11 included ₹ 180 lakhs of government subsidy which was not likely to recur.
- (viii) ₹ 375 lakhs of Research and Development expenditure was written off to the Profit and Loss Account in the current year. This expenditure was not likely to recur.
- (ix) Future maintainable profits (pre-tax) are likely to be higher by 10%.
- (x) Tax rate during 2010-11 was 50%, effective future tax rate will be 40%.

(xi) Normal rate of return expected is 15%.

One of the directors of the company Arvind, fears that the company does not enjoy a goodwill in the prevalent market circumstances. Critically examine this and establish whether Popular Co. has or has not any goodwill. If your answers were positive on the existence of goodwill, show the leverage effect it has on the company's result. Industry average return was 12% on long-term funds and 15% on equity funds.

Solution:

1. Calculation of Capital employed (CE) ₹ in lakhs As on 31.3.10 As on 31.3.11 **Replacement Cost of Fixed Assets** 3.300.00 3.750.00 Trade Investment (50%) 375.00 375.00 Current cost of stock 858.00 120 390 + 390 × 100 990.00 120 450 + 450 × 100 Debtors 510.00 334.20 Cash-at-Bank 138.00 135.00 Total (A) 5,181.00 5,584.20 Less: **Outside Liabilities** 18% term loan 540.00 495.00 Sundry creditors 105.00 145.80 Provision for tax 39.00 33.00 Total (B) <u>678.00</u> 679.80 Capital employed (A-B) 4,503.00 4,904.40 Average Capital employed at current value = CE as on 31.3.2010 + CE as on 31.3.2011 2 4,503 + 4,904.40=4,703.70 Lakhs 2 2. ₹ in Lakhs Future Maintainable Profit Increase in General Reserve 75 Increase in Profit and Loss Account 90 **Proposed Dividends** 375 **Profit After Tax** 540 1,080 Pre-Tax Profit = 5401 - 0.5Fictitious Assets written off (30-248) 6.00 Less: 37.50 Non-Trading investment income (10% of ₹375) 180.00 Subsidy Exchange Loss on creditors $[0.6 \text{ lakhs} \times (117-99)]$ 10.80 Additional Depreciation on increase in value of Fixed

		Assets (current year) (3,750 – 1,950 = $1,800 \times \frac{5}{100}$) i.e.,	<u>90.00</u>	<u>324.30</u> 755.70
	Add:	Exchange Gain on Debtors	4.20	
		[0.35 lakhs × (117-105)]		
		Research and development expenses written off	375.00	
		Stock Adjustment (90-78)	<u>12.00</u>	<u>391.20</u>
				1,146.90
	Add:	Expected increase of 10%		<u>114.69</u>
	Future N	Maintainable Profit before Tax		1,261.59
	Less:	Tax @ 40% (40% of Rs1,261.59)		<u>504.63</u>
	Future N	Maintainable Profit		<u>756.95</u>
3.	Valuatio	on of Goodwill		₹ in lakhs
	(i)	According to Capitalisation of Future Maintainable Profit Metho	d	
		Capitalised value of Future Maintainable Profit		
		$=\frac{768.84}{15} \times 100$		5,049.39
		Less: Average capital employed		<u>4,703.70</u>
		Value of Goodwill		<u>345.69</u>
		Or O		<u>343.05</u>
	(ii)	According to Capitalisation of Super Profit Method		₹ In lakhs
		Future Maintainable Profit		756.95
		Less: Normal Profit @ 15% on average capital employed		
				705.56
		(1567.90×15%)		
		Super Profit		<u>51.39</u>
		Capitalised value of super profit $\frac{17.13}{15} \times 100$ i.e. Goodwill	a	342.60
Goodw	ill exists,	, hence director's fear is not valid.		
		ect on Goodwill		
		₹ in lakhs		
Future N	Maintaina	ble Profit on equity fund		756.95
Future Maintainable Profit on Long-term Trading Capital employed				
	Future I	Maintainable Profit After Tax 7	756.95	
	Add:	Interest on Long-term Loan (Term Loan)		
		(After considering Tax) 495×18% = 89.1× $\frac{50}{100}$	<u>44.55</u>	712.40

Average capital employed (Equity approach)	4,703.70
Add: 18% Term Loan (540+495)/2	<u>517.50</u>
Average capital employed (Long-term Fund approach)	<u>5,221.20</u>
Value of Goodwill	
(A) Equity Approach	
Capitalised value of Future Maintainable Profit = $\frac{756.96}{15}x100$ =	5,046.39
Less: Average capital employed	<u>4,703.70</u>
Value of Goodwill	342.69
(B) Long-Term Fund Approach	
Capitalised value of Future Maintainable Profit =	6,679.25
$\frac{801.51}{12} \times 100 =$	
Less: Average capital employed	<u>5,221.20</u>
Value of Goodwill	<u>1,458.05</u>
Comments on Leverage effect of Goodwill:	

Comments on Leverage effect of Goodwill:

Adverse Leverage effect on goodwill is 371.79 lakhs (i.e., ₹486.02-114.23). In other words, Leverage Ratio of Popular Ltd. is low as compared to industry for which its goodwill value has been reduced when calculated with reference to equity fund as compared to the value arrived at with reference to long term fund.

Working Notes:

(1)	Stoc	k adjustment	₹ in lakhs
	(i)	Excess current cost of closing stock over its Historical cost (990–9300)	90.00
	(ii)	Excess current cost of opening stock over its Historical cost (858-780)	<u>78.00</u>
	(iii)	Difference [(i– ii)]	<u>12.00</u>
(2)	Debt	tors' adjustment	
	(i)	Value of foreign exchange debtors at the closing exchange rate ($$1,05,000 \times 39$)	40.95
	(ii)	Value of foreign exchange debtors at the original exchange rate ($$1,05,000 \times 35$)	<u>36.75</u>
	(iii)	Difference [(i) – (ii)]	<u>4.20</u>
(3)	Cred	litors' adjustment	
	(i)	Value of foreign exchange creditors at the closing exchange rate (\$1,80,000×39)	70.20
	(ii)	Value of foreign exchange creditors at the original exchange rate(\$1,80,000×33)	<u>59.40</u>
	(iii)	Difference [(i) – (ii)]	<u>10.80</u>

Liabilities	(Rupees	Assets	(Rupees
	in Lakhs)		in Lakhs)
1,00,000 equity shares of		Goodwill	5
₹10 each fully paid	10	Fixed assets	15
1,00,000 equity shares of		Other tangible assets	5
₹6 each, fully paid up	6	Intangible assets (market value)	3
Reserves and Surplus	4	Miscellaneous expenditure to	
Liabilities	<u>10</u>	the extent not written off	_2
	<u>30</u>		<u>30</u>

Question 29: The Balance Sheet of RNR Limited as on 31.12.2010 is as follows:

Fixed assets are worth $\stackrel{?}{<}$ 24 lakhs. Other Tangible assets are revalued at $\stackrel{?}{<}$ 3 lakhs. The company is expected to settle the disputed bonus claim of $\stackrel{?}{<}$ 1 lakh not provided for in the accounts. Goodwill appearing in the Balance Sheet is purchased goodwill. It is considered reasonable to increase the value of goodwill by an amount equal to average of the book value and a valuation made at 3 years' purchase of average super-profit for the last 4 years.

After tax, profits and dividend rates were as follows :

Year	PAT	Dividend %
	(₹ in Lakhs)	Z
2007	30.00	11%
2008	35.00	12%
2009	40.0	13%
2010	41.00	14%

Normal expectation in the industry to which the company belongs is 10%.

Akbar holds 20,000 equity shares of $\overline{\mathbf{x}}$ 100 each fully paid and 10,000 equity shares of $\overline{\mathbf{x}}$ 60 each, fully paid up. He wants to sell away his holdings.

A HIGH A HIGH

- (i) Determine the break-up value and market value of both kinds of shares.
- (ii) What should be the fair value of shares, if controlling interest is being sold ?

Solution:

(i)	Break-up value of Re. 10 of share capital	$=\frac{\text{Rs.}289.80 \text{ lakhs}}{\text{Rs.}160.00 \text{ lakhs}}$			
		=₹18.10			
	Break up value of ₹ 100 paid up share	= 18.10 × 100 = ₹ 181.00			
	Break up value of ₹ 60 paid up share	= 18.10 × 60 = ₹ 108.60			
	Market value of shares :				
	Average dividend = $\left(\frac{11\% + 12\% + 13\% + 14\%}{4}\right) = 12.5\%$				
	Market value of ₹ 100 paid up share = $\frac{12.5\%}{10\%} \times 100 = ₹ 125.00$				

Market value of ₹ 60 paid up share = $\frac{12.5\%}{10\%} \times 60 = ₹ 75.00$

(ii) Break up value of share will remain as before even if the controlling interest is being sold. But the market value of shares will be different as the controlling interest would enable the declaration of dividend upto the limit of disposable profit.

	AverageProfit*	Rs. 34 lakhs × 100 = 2	1.25%	
	Paid up value of shares	Rs.160 lakhs		
	Market value of shares :			
		.25% 10% × 100 = ₹ 212.50		
	For ₹ 60 paid up share = $\frac{21.2}{10}$	25% × 60 = ₹ 127.50	`	
	Fair value of shares = $\frac{\text{Breaku}}{1}$	pvalue + Marketvalue		
	Fair value of ₹ 100 paid up sh	are = $\frac{181.00 + 212.50}{2}$ = ₹ :	196.80	
	Fair value of ₹ 6 paid up share	$= \frac{108.60 + 127.50}{2} = 3$	₹ 118.10	
	* (Transfer to reserves has be	en ignored)	S	
Workin	g Notes:			
	\. U			(₹ in lakhs)
(a)	Calculation of average capita	l employed		
	Fixed assets		240.00	
	Other tangible assets		30.00	
	Intangible assets		<u>30.00</u> 300.00	
	Less : Liabilities	100	500.00	
	Bonus	10	<u>110.00</u>	
		त मा ि / अज्यो	190.00	
	Less : ½ of profits [½ (41 – Bo Average capital employed	onus 10)]	<u>15.50</u> <u>174.50</u>	
	Average capital employed		174.50	
(b) Cal	culation of super profit			
	Average profit	= ¼ (30 + 35 + 40 + 41 – Bonu	us 10)	
		= ¼×136	34.00	
	Less : Normal profit	= 10 % of ₹ 174.50 lakhs	<u>17.45</u>	
	Super profit		<u>16.55</u>	
(c)	Calculation of goodwill			
.,	-	super-profit = 3 × 16.55 = ₹ 4	19.65 lakhs	
	Increase in value of goodwill		= ½ (book value + 3 years' s	uper profit)
			- 12 (DOON VAIUE + 5 YEARS S	aper prontj

	= ½ (50 + 49.65)		
	=₹49.825 lakhs		
Net assets as revalued including			
book value of goodwill		240.00	
Add : Increase in goodwill (rounded-off)		<u>49.80</u>	
Net assets available for shareholders		<u>289.80</u>	
Note : In the above solution, tax effect of disputed bonus a	nd corporate dividend tax	have	heen

Note : In the above solution, tax effect of disputed bonus and corporate dividend tax have been ignored.

Question 30: Following are the information of two companies for the year ended 31st March, 2011 :

Particulars	Company A	Company B
Equity Shares of ₹ 100 each	8,00,000	10,00,000
10% Pref. Shares of ₹ 100 each	6,00,000	4,00,000
Profit after tax	3,00,000	3,00,000

Assume the Market expectation is 18% and 80% of the Profits are distributed.

(i) What is the rate you would pay to the Equity Shares of each Company ?

- (a) If you are buying a small lot.
- (b) If you are buying controlling interest shares.
- (ii) If you plan to invest only in preference shares which company's preference shares would you prefer?
- (iii) Would your rates be different for buying small lot, if the company 'A' retains 30% and company 'B' 10% of the profits?

Solution:

(i) (a) Buying a small lot of equity shares: If the purpose of valuation is to provide data base to aid a decision of buying a small (non-controlling) position of the equity of the companies, dividend capitalisation method is most appropriate. Under this method, value of equity share is given by:

Dividendper share
Marketcapitalisation rate
Company A :
$$\overline{\mathbf{x}} \frac{24}{18} \times 100 = \overline{\mathbf{x}} 133.33$$

Company B : $\overline{\mathbf{x}} \frac{20.8}{18} \times 100 = \overline{\mathbf{x}} 115.60$

(b) Buying controlling interest equity shares

If the purpose of valuation is to provide data base to aid a decision of buying controlling interest in the company, EPS capitalisation method is most appropriate. Under this method, value of equity is given by:

 $\frac{\text{Earning per share(EPS)}}{\text{Market capitalisation rate}} \times 100$

Company A : ₹
$$\frac{30}{18} \times 100 = ₹$$
 166.67

Company B : ₹
$$\frac{26}{18} \times 100 = ₹$$
 144.44

(ii) Preference Dividend coverage ratios of both companies are to be compared to make such decision.

$$\frac{Profit after tax}{PreferenceDividend} \times 100$$
Company A : $\frac{Rs. 3,00,000}{Rs. 60,000} = 5$ times
Company B : $\frac{Rs. 3,00,000}{Rs. 40,000} = 7.5$ times

If we are planning to invest only in preference shares, we would prefer shares of B Company as there is more coverage for preference dividend.

(iii) Yes, the rates will be different for buying a small lot of equity shares, if the company 'A' retains 30% and company 'B' 10% of profits.

The new rates will be calculated as follows:

Company A : ₹
$$\frac{2.1}{18} \times 100 = ₹$$
 11.67

Company B : ₹
$$\frac{2.34}{18} \times 100 = ₹$$
 13.00

Working Notes:

2.

1. Computation of Earnings per share and dividend per share (companies distribute 80% of profits)

		Company A	Company B	
	Profit before tax	3,00,000	3,00,000	
	Less: Preference dividend	<u>60,000</u>	40,000	
	Earnings available to equity shareholders (A)	<u>2,40,000</u>	2,60,000	
	Number of Equity Shares (B)	8,000	10,000	
	Earning per share (A/B)	30.0	26.00	
	Retained earnings 20%	48,000	52,000	
	Dividend declared 80% (C)	1,92,000	2,08,000	
	Dividend per share (C/B)	24.00	20.80	
•	Computation of dividend per share (Compan	y A retains 30% a	ind Company B 1	0% of profits)
	Earnings available for Equity Shareholders	2,40,000	2,60,000	
	Number of Equity Shares	8,000	10,000	

Retained Earnings	72,000	26,000
Dividend Distribution	1,68,000	2,34,000
Dividend per share	21.00	23.40

Question 31: The following is the Balance Sheet of N Ltd. as on 31st March, 2011:

	Balance	e Sheet	
Liabilities	₹	Assets	₹
Equity shares of ₹ 10 each fully paid		Goodwill	80,000
	8,00,000	Building	4,80,000
13.5% Redeemable preference shares		Machinery	4,40,000
of ₹ 100 each fully paid	4,00,000	Furniture	2,00,000
General Reserve	3,20,000	Vehicles	3,60,000
Profit and Loss Account	64,000	Investments	3,20,000
Bank Loan (Secured against fixed assets)	2,40,000	Stock	2,20,000
Bills Payable	1,20,000	Debtors	3,60,000
Creditors /	6,20,000	Bank Balance	64,000
/ L J		Preliminary Expenses	40,000
	<u>25,64,000</u>		<u>25,64,000</u>
Further information:		F	

(i) Return on capital employed is 20% in similar businesses.

(ii) Fixed assets are worth 30% more than book value. Stock is overvalued by ₹ 20,000, Debtors are to be reduced by ₹ 4,000. Trade investments, which constitute 10% of the total investments are to be valued at 10% below cost.

S

- (iii) Trade investments were purchased on 1.4.2010. 50% of non-Trade Investments were purchased on 1.4.2009 and the rest on 1.4.2008. Non-Trade Investments yielded 15% return on cost.
- (iv) In 2008-2009 new machinery costing ₹ 40,000 was purchased, but wrongly charged to revenue. This amount should be adjusted taking depreciation at 10% on reducing value method.
- (v) In 2009-2010 furniture with a book value of ₹ 20,000 was sold for ₹ 12,000.
- (vi) For calculating goodwill two years purchase of super profits based on simple average profits of last four years are to be considered. Profits of last four years are as under:

2007-2008 ₹ 3,20,000, 2008-2009 ₹ 3,60,000, 2009-2010 ₹ 4,20,000, 2010-2011 ₹ 4,40,000.

(vii) Additional depreciation provision at the rate of 10% on the additional value of Plant and Machinery alone may be considered for arriving at average profit.

Find out the intrinsic value of the equity share. Income-tax and Dividend tax are not to be considered.

Solution:

Calculation of intrinsic value of equity shares of N Ltd.

- 1. Calculation of Goodwill
 - (i) Capital employed Fixed Assets ₹ ₹

Building	4,80,0	000	
	4,69,1		
Furniture	2,00,0		
Vehicles	<u>3,60,0</u>		
	15,09,2		
Add: 30% increase	4,52,		
	19,61,9		
Trade investments (₹3,20,000 × 10% × 90%)	28,80	000	
Debtors (₹ 3,60,000 – ₹ 4,000)	3,56,0	000	
Stock (₹ 2,20,000 – ₹ 20,000)	2,00,0	000	
Bank balance	<u>64,0</u>	<u>200</u> 20	5,10,708
Less: Outside liabilities	$\langle C \rangle$		
Bank Loan	2,40,0	000	
Bills payable	1,20,0	000	
Creditors	<u>6,20,0</u>	<u>000</u>	<u>9,80,000</u>
Capital employed		<u>1</u>	<u>5,30,708</u>
(ii) Future maintainable profit		7	
Calculation of average profit		S	
2007-08	2008-09	2009-	2010-
J Z ₹	₹	2010 ₹	2011 ₹
Profit given 3,20,000	3,60,000	4,20,000	x 4,40,000
Add: Capital expenditure of	3,00,000	4,20,000	4,40,000
machinery charged to revenue	40,000		
Loss on sale of furniture	10,000	8,000	_
	4,00,000	4,28,000	4,40,000
तनसो मा	/ ग्रीज्याति	र्गमय	
Less: Depreciation on	4,000	3,600	3,240
machinery	·	·	,
Income from non-trade investments	21,600	43,200	43,200
Reduction in value of	,		,
stock			1,00,000
Bad debts			20,000
Adjusted profit <u>3,20,000</u>	<u>3,74,400</u>	<u>3,81,200</u>	<u>3.69.560</u>
			₹
Total adjusted profit for four years (2007-20	08 to 2010-201	11)	<u>14,45,160</u>

		Average profit (₹ 14,45,160/4)		3,61,290
		Less: Depreciation at 10% on addition	nal value of machinery	
		(4,40,000 + 29,160) × 30/100 i.e. ₹ 1,	40,748	14,075
		Adjusted average profit		<u>3,47,215</u>
	(iii)	Normal Profit		
		20% on capital employed i.e. 20% on	₹ 16,30,708	₹3,26,142
	(iv)	Super profit		
		Expected profit – normal profit		
		₹ 3,47,215 – ₹ 3,26,142 = ₹ 21,073		
	(v)	Goodwill	T A	
		2 years' purchase of super profit	AC	
		₹ 21,073 × 2 = ₹ 42,146		
2.	I	Net assets available to equity shareho	olders	
		6	र र र	-
	Go	oodwill as calculated in 1(v) above	42,146	5
	Su	ndry fixed assets	19,61,908	
	Tra	ade and Non-trade investments	3,16,800)
	De	btors	3,56,000	
	Ste	ock	2,00,000	
	Ва	nk balance	64,000	<u>)</u>
			29,40,856	5
	Le	ss: Outside liabilities		
		Bank loan	2,40,000	
		Bills payable	1,20,000	
		Creditors	<u>6,20,000</u> 9,80,000)
		Preference share capital	4,00,000	2
	Ne	et assets for equity shareholders	15,60,856	<u>a</u>

3. Valuation of equity shares

Value of equity chare -	Net assets available to equity shareholders
Value of equity share =	Numberof equity shares
] = -	Rs.15,60,856 80,000
=₹	19.51

Note:

- 1. Depreciation on the overall increased value of assets (worth 30% more than book value) has not been considered. Depreciation on the additional value of only plant and machinery has been considered taking depreciation at 10% on reducing value method while calculating average adjusted profit.
- 2. Loss on sale of furniture has been taken as non-recurring or extraordinary item.
- It has been assumed that preference dividend has been paid till date. 3.

Question 32

The directors of a public limited company are considering the acquisition of the entire share capital of an existing company X Ltd engaged in a line of business suited to them. The directors feel that acquisition of X will not create any further risk to their business interest.

The following is the Balance Sheet of X Ltd., as at 31st December, 2005: ₹ Liabilities ₹ Assets Share Capital: **Fixed** assets 3,00,000 2,000 equity shares of ₹100 each fully Current assets: 2,00,000 paid-up Stock 1,00,000 General reserve 1,50,000 Sundry debtors 1,70,000 1,20,000 Cash and bank balances Bank overdraft 50,000 Sundry creditors 1,50,000 <u>6,20,000</u> 6,20,000 X's financial records for the past five years were as under: 2010 2009 2008 2007 2006 ₹ ₹ ₹ ₹ 35,000 Profits 40,000 37,000 30,000 31,000 Extra ordinary item(s) 2,000 (4,000) 1,750 (3,000)<u>500</u> 41,750 39,000 32,000 26,000 30,500 Dividends 24,000 20,000 20,000 16,000 16,000 19,000 12,000 10,000 14,500 17,750 Additional information: (i) There were no changes in the issued capital of X during this period. (ii) The estimated values of X Ltd.'s assets on 31.12.2010 are: **Replacement cost** Realisable value ₹ ₹ **Fixed** assets 4,00,000 2,70,000

Stock 1,50,000 (iii) It is anticipated that 1% of the debtors may prove to be difficult to be realized.

(iv) The cost of capital to the acquiring company is 10%.

The current return of an investment of the acquiring company is 10%. Quoted companies with similar (v) businesses and activities as X have a P/E ratio approximating to 8, although these companies tend to be larger than X.

1,60,000

Required:

Estimate the value of the total equity capital of X Ltd., on 31.12.2010 using each of the following bases:

- (a) Balance sheet value
- (b) Replacement cost
- (c) Realisable value
- (d) Gordon's dividend growth model
- (e) P/E ratio model.

Solution:

				₹	₹
(a)	Balance Sheet Value	GT	AC		
	Capital	0		2,00,000	
	Reserve		NUL	<u>1,50,000</u>	3,50,000
(b)	Replacement cost value				
	Capital		3	2,00,000	
	Reserve	1 <u>2</u> 1 1		1,50,000	
	Appreciation:	15 I		3	
	Fixed assets	IFI I	1,00,000	S	
	Stock	F	<u>50,000</u>	<u>1,50,000</u>	5,00,000
		0		¥	
(c)	Realizable value	Z			
	Capital			2,00,000	
	Reserve			1,50,000	
	Appreciation in s	stock		60,000	
	Depreciation in t	fixed assets	\mathbf{k}	(30,000)	
	Book debts (Bad)*	A STORE	<u>(1,700</u>)	3,78,300
		तमसा		गमय	
(d)	Gordon's dividend grow	h model			
	The formula to be used is	$P = \frac{E(1-b)}{k-br}$			
		k-br			
	Where				
	Р	Price of share			
	E	Earning per share			
	b	retention ratio			
	k	cost of capital			

^{*} It has been assumed that estimated bad debts would not be relevant for estimating values under bases (a) and (b).

	br growth rate			
	r rate of return or	1		
investment.				
Profits retained: ₹	17,750+ 19,000 + 12,000+ 1	.0,000 + 14,500 = ₹	73,250	
Profits earned:	₹41,750 + 39,000 + 32,00	0+ 26,000+30,500	= ₹1,69,250	
Retention ratio:	$\frac{Rs.73,250}{Rs.1,69,250} = 0.43$			
Return on investm	ent for the year 2010 = $$	<i>Rs</i> .40,00	00	x 100
	2,0	0,000+1,50,000	$+\frac{1}{2}$ of 17,750	
	<u>/</u> .5	AC	Z	
	<u> </u>	$\frac{40,000}{3,58,875}$ ×100=	=11.14	
Growth rate =	Return on investment x r	etention ratio		
= 11	14 x 0.43 = <mark>4.7</mark> 9 %			
Average profits =	$\frac{Rs.1,69,250}{5} = Rs.33,$	850	NTS	
Market value =	Rs.33,850(1- 0,10-0.04	$\frac{(43)}{(.052)} = \frac{Rs.33,850}{.052}$	=Ks.3	70,336(<i>approx</i> .)
	Z			
(e) P/E ratio model				
Comparable qu	uoted companies have a P/E	ratio of 8. X Ltd. is p	rima facie small	company.
If a P/E ratio of	f 6 is adopted, the valuation	will be 40,000 x 6 =	₹2,40,000	
If a P/E ratio of	7 were to be adopted, the	valuation will be 40,	000 x 7 = ₹2,80,0	000
	fit & Loss Account of Bright	ex Co. Ltd., prepare	र्गमय a gross value a	dded statement for the
year ended 31.12.2011:	onciliation between gross va	lue added and profit	thoforo tovation	
	and Loss Account for the ye	-		
			Notes	(₹′000)
(₹'00	00)			
Income :				24 200
Sales Other Income				31,200 275
				31,475
Expenditure:				
Production and operation		1	21,600	
Administration expense	es (Factory)	2	900	

Interest & Other charge	S	3	3,120	
Depreciation			80	2 <u>5,700</u>
Profit before tax				5,775
Provision for tax				275
				5,500
Balance as per last Balar	nce Sheet			300
				5,800
Transferred to fixed ass	ets replacement reserve		2,000	
Dividend paid			900	
Britacha pala				<u>2,800</u>
Surplus carried to Balan	co Shoot			3,000
Notes:				3,000
1. Production & Oper	ration expanses :			
Consumption of ra				16,050
•		70		200
Consumption of st Local tax	ores			40
				-
Salaries to adminis		SWE C		3,100
Other manufacturi	ng expenses			2,210
.				<u>21,600</u>
	enses include salaries and com	mission to directors		25
3. Interest on other c		5		
	k overdraft (Overdraft is of tem	porary nature)		545
(b) Fixed loan from				205
(c) Working capital	loan from I.F.C.I.			100
	amount to one-tenth of	total value added	by manufacturir	ng and trading
activities.	Z			
		L /S/		
Solution:	Brightex	Co. Ltd		
	alue Added Statement for the		mber, 2011	
			In %	0
		Thousands thousan	ds	
Sales	$\mathbf{A} \rightarrow 1$	31,2	00	
Less: Cost of bought in r	naterial and services:	1 Shanda		
	perational expenses	/ अभ्यातेर्गक		
(21,600 - 40 - 3,5		18,460	4 j	
(,000 .0 0)				

rioduction and operational expenses		' ' H U
(21,600 - 40 - 3,100)	18,460	
Administration expenses (180 – 5)	875	
Interest on bank overdraft	545	
Interest on working capital loan	100	
Excise duties (Refer to working note)	900	
Other/miscellaneous charges(444 – 180)	<u>1,320</u>	<u>22,200</u>
Value added by manufacturing and trading activities	5	9,000
Add: Other income		275
Total Value Added		<u>9,275</u>
Application of Value Added:		
To pay Employees :		
Salaries to Administrative staff		3,100
To pay Directors:		

Salaries and Commission		25	
To Pay Government :			
Local Tax	40		
Income Tax	<u>275</u>	315	
To Pay Providers of Capital :			
Interest on Fixed Loan	255		
Dividend	<u>800</u>	1,055	
To provide For Maintenance and Expansion of the Co	ompany :		
Depreciation	80		
Fixed Assets Replacement Reserve	200		
Retained Profit (600 - 60)	<u>2,700</u>	4,780	
		<u>9,275</u>	

Reconciliation of Total Value Added and Profit Before Taxation:

	61	A ₹In	₹In
	105	Thousands	thousands
Profit before Tax			5,775
Add back:	1.	NUL	
Depreciation		= 0 = 80	
Salaries to Administrative Staff		3,100	
Director's Remuneration		25	
Interest on Fixed Loan		255	
Local Tax		40	<u>3,500</u>
Total Value Added	2		<u>9,275</u>
Working Note:		S	
Calculation of Excise Duty			
	\ ທ \		₹ In thousands
Interest and other charges	Z		3,120
Less: Interest on bank over	erdraft	545	
Interest on loan from	m ICICI	255	
Interest on loan from	n IFCI	100	<u>900</u>
Excise duties and other/mis	cellaneous charges		<u>2,220</u>

Assuming that these miscellaneous charges have to be taken for arriving at Value Added (in the first part of Value Added Statement), the excise duty will be computed as follows. Let excise duty be x; thus miscellaneous/ other charges = 2,220 - x

Thus x = $1/10 \times [31,200 - \{18,460 + 875 + 545 + 100 + x + (2,220 - x)\}]$ = $1/10 \frac{1}{10} \times [31,200 - 22,200] = 90$ Other/miscellaneous charges = 2,220 - 900 = 1,320

The above solution is given accordingly.

However, if other/miscellaneous charges are taken as any type of application of Value Added. (i.e, to be taken in the application part), then excise duty (x) will be computed as follows: x = 1/10 x [31,200 - (18,460 + 875 + 545 + 100 + x)] x = 1/10 x [11,220 - x]or, 11x = 11,220 x = 1,020And thus total value added will be 10200 + 275 (other income) = 10,475 And accordingly, application part will be prepared, taking miscellaneous charges.

₹ ('000) 1,200 [i.e, 2,220 – 1,020] as the application of value added.

Question 34: From the following Profit and Loss Account of X Limited, prepare Gross Value Added Statement and show the reconciliation between Gross Value Added and Profit before taxation:

Profit and Loss Account for the year e		
	(₹ in lakhs)	(₹ in lakhs)
Income		
Sales		2,400
Other Income		150
		2,550
Expenditure		
Production and Operational Expenses	1,800	
Administrative Expenses	90	
Interest and Other Charges	90	
Depreciation	<u> </u>	<u>2,040</u>
Profit before taxes		510
Provision for taxes		<u> </u>
	O	420
Balance as per last Balance Sheet 🅢 🦯 💦 🕺		<u> </u>
		450
Transferred to:		
General Reserve		240
Proposed Dividend	5	60
Surplus carried to Balance Sheet		<u>150</u>
		<u>450</u>
Break-up of some of the Expenditure is as follows:		
Production and Operational Expenses:		
Consumption of Raw Materials and Stores		960
Salaries, Wages and Bonus		180
Cess and Local Taxes		60
Other Manufacturing Expenses		<u>600</u>
		<u>1,800</u>
Administrative Expenses:	41	
Audit Fee		18
Salaries and Commission to Directors		24
Provision for Doubtful Debts	and a	18
Other Expenses	विगमग	<u>30</u>
		<u>90</u>
Interest and other Charges:		—
On Working Capital Loans from Bank		30
On Fixed Loans from ICICI		45
On Debentures		<u>15</u>
		<u> </u>
		<u></u>

Solution:

	X Limited			
	Gross Value Added Statemen	t for the year ende	ed 31st March,	2011
		₹ in lakhs	₹ in lakhs	
Sale	5			
Less	: Cost of bought in material or services:		2,400	
	Production and Operational Expenses (960 + 600)	1,560		
	Administrative Expenses (18 + 18 +30)	66		
	Interest on working capital loans	30	1656	
Valu	e added by manufacturing and trading activities		744	
	Other Income		150	
	I Value Added		894	
			<u> </u>	
Арр	lication of Value Added:	AC		
То	Pay Employees:			%
	Salaries, Wages and Bonus		180	20.14
	Pay Directors:	SWE C		
То	Salaries and Commission		24	2.68
	Pay Government:	7 7		
То	Cess and Local taxes	60		
	Income Tax	<u>90</u>	150	16.78
	Pay Providers of Capital:			
То	Interest on Debentures	5		
	Interest on Fixed Loans	45		
	Dividend	60	120	13.42
	Provide for Maintenance and		/	
То	Expansion of the Company:		/	
	Depreciation	60		
	General Reserve	240		
	Retained Profit (150 – 30)	<u>120</u>	<u>420</u>	46.98
			<u>894</u>	100.00
	Reconciliation between Gross Value ₹ in lakhs	₹ in lakhs		n
_				
	ofit before tax dd back:	510		
	epreciation 60			
	laries, Wages and Bonus 180			
	rectors' Remuneration 24			
	ess and Local Taxes 60			
	terest on Debentures 15			
	terest on Fixed Loans 45	<u>384</u>		
	otal Value Added	894		

Question 35: The following is the Profit and Loss Account of Galaxy Ltd. for the year ended 31.03.2011. Prepare a Gross Value Added Statement of Galaxy Ltd. and show also the reconciliation between Gross Value Added and Profit before taxation.

Profit and Loss Account for the year ended 31.03.2011

		Notes	
		Amount	
			(₹ in lakhs)
Income:			. ,
Sale	S	-	3,560
Oth	er Income	-	220
			3,780
Expenditure:			
Proc	luction and operational expenses	(a) <mark>4</mark> 2,564	_
Adn	ninistration expenses (Factory)	(b) 132	_
Inte	rest	(c) 116	_
=	reciation	<u>68</u>	2,880
	it before taxes		900
	vision for taxes	(d) –	120
	it after tax		780
Bala	nce as per last Balance Sheet		40
_			820
	sferred to General Reserve	180	—
DIVI	dend paid	<u>380</u>	—
C	live convied to Delever Chest	560	_
Sur	olus carried to Balance Sheet	$\left \begin{array}{c} \frac{260}{820} \right \right $	—
		<u>820</u>	—
Notes:			
	luction and Operational expenses		₹ in lakhs
	Consumption of raw materials	$* \angle \square$	1,172
	Consumption of stores		236
	consumption of stores and	/ अभ्यातेर्गाताः	250
	Salaries, Wages, Gratuities etc. (Adm	111.)	328
	Cess and Local taxes		392
	Other manufacturing expenses		436
			<u>2,564</u>
(b) Admini	stration expenses include salaries	, commission to Directors	₹ 36.00 lakhs
	on for doubtful debts ₹ 25.20 lakhs.		
			₹ in lakhs
(c) Interes	on loan from ICICI Bank for working	сарітаї	36

Interest on loan from ICICI Bank for fixed loan	40
Interest on loan from IFCI for fixed loan	32
Interest on Debentures	8
	116

- (d) The charges for taxation include a transfer of ₹ 12.00 lakhs to the credit of Deferred Tax Account.
- (e) Cess and Local taxes include Excise Duty, which is equal to 10% of cost of bought-in material.

Solution: Galaxy Ltd	I.		
Gross Value Added Statement for the year ended	31st March,	2011	
S C ₹ in lakhs	₹ in lak	hs	
Sales	3,5	60	
Less: Cost of bought in materials and services:			
Production and operational expenses (1,172+236+436)			
Administration expenses (132 – 36) 796			
Interest on working capital loan 36			
Excise duty (Refer working note) 220	2,1		
Value added by manufacturing and trading activities	1,3		
Add: Other income		<u>20</u>	
Total value added	<u>1,5</u>	<u>84</u>	
Application of Value Added			
		%	
To Employees			
Salaries, wages, gratuities etc.		328	20.71%
To Directors			
Salaries and commission		36	2.27%
To Government			
Cess and local taxes (392 – 220)	172		
Income tax	108	280	17.68%
To Providers of capital			
Interest on debentures	8		
Interest on fixed loan	76		
Dividends	<u>380</u>	460	29.04%
To Provide for maintenance and expansion of the company			
Depreciation	68		
General reserve	180		
Deferred tax	12		
Retained profits (260 – 40)	<u>220</u>	<u>480</u>	<u>30.30%</u>
		<u>1,584</u>	100%
Statement showing reconciliation of Gross Value Added with Pro	ofits before	taxation	
	₹ in lak	hs	
Profits before taxes	9	00	
Add:			
Depreciation 68			
Directors' remuneration 36			

Salaries, wages & gratuities etc.	328	
Cess and local taxes	172	
Interest on debentures	8	
Interest on fixed loan	<u>76</u>	<u>684</u>
Total value added		1,584
Working Note:		
Calculation of Excise Duty		
Say cost of bought in materials and services is 'x'		
Excise Duty is 10% of $x = x/10$		
x = 1,844+96+36 + x/10		
x = 1,976 + x/10 = 2,196 (approx.)		
Excise Duty = 2,196 – 1,976 = ₹ 220		

Question 36: On the basis of the following Profit and Loss Account of Zed Limited and the supplementary information provided thereafter, prepare Gross Value Added Statement of the company for the year ended 31st March, 2011. Also prepare another statement showing reconciliation of Gross Value Added with Profit before Taxation.

Profit and Loss Account of Zed Limited for the year ended 31st March, 2011.

	Amount	Amount
	(₹ in lakhs)	(₹ in lakhs)
Income	Ź	
Sales		12,525
Other Income		325
E		<u>12,850</u>
Expenditure		
Production and Operational Expenses	8,875	
Administrative Expenses	462.50	
Interest	587.50	
Depreciation	925.00	<u>10,850</u>
Profit before Taxation		2,000
Provision for Taxation		700
Profit after Taxation		1,300
Credit Balance as per last Balance Sheet	भयातिर्गाल	100
a. Pikis	174	1,400
Appropriations		
Transfer to General Reserve		250
Preference Dividend (Interim) paid		125
Proposed Preference Dividend (Final)		125
Proposed Equity Dividend		750
Balance carried to Balance Sheet		150
		<u>1,400</u>
Supplementary Information		
Production and Operational Expenses consist of:		
Raw Materials and Stores consumed		4,750

Wages, Salaries and Bonus	1,525
Local Taxes including Cess	550
Other Manufacturing Expenses	2,050
	8,875
Administrative Expenses consist of:	
Salaries and Commission to Directors	150
Audit Fee	60
Provision for Bad and Doubtful Debts	50
Other Administrative Expenses	202.50
	<u>462.50</u>
Interest is on:	
Loan from Bank for Working Capital	87.50
Debentures	<u>500.00</u>
	<u>587.50</u>

Solution: Gross Value Added Statement of Zed Ltd. for the year ended 31st March, 2011 \mathbf{O}

. .

Sales		A	₹ in lakhs	₹ in lakhs 12,525
Less:	Cost of raw materials, stores and other services consumed	NT	6,800	
	Administrative expenses	S	312.50	
	Interest on loan from bank for working capital	0	87.50	<u>7,200</u>
Value	added by manufacturing and trading activities			5,325
Add:	Other income	>/		325
	Total value added	5/		<u>5,650</u>
	Application of Value Added	/		
		₹in lakhs	₹ in lakhs	%
То	Pay employees			
	Wages, salaries and bonus	Ac	1,525	26.99
То	pay directors	ागमय		
	Salaries and commission to Directors		150	2.66
То	pay Government			
	Local taxes including cess	550		
	Income tax	<u>700</u>	1,250	22.12
То	pay providers of capital			
	Interest on debentures	500		
	Preference dividend	250		
	Equity dividend	<u>750</u>	1,500	26.55
То	provide for the maintenance and expansion of the company:			

Revisionary Test Paper for June 2012 Examination

Depreciation	925		
Transfer to general reserve	250		
Retained profit ₹ (150 – 120) lakhs	50	1,225	<u>21.68</u>
		<u>5,650</u>	100

Statement showing Reconciliation between Gross Value Added with Profit before Taxation					
	₹ in lakhs	₹ in lakhs			
Profit before taxation		2,000			
Add back:					
Wages, salaries and bonus	1,525				
Salaries and commission to Directors	150				
Local taxes including cess	550				
Interest on debentures	500				
Depreciation 6	<u>925</u>	<u>3,650</u>			
Gross Value Added		<u>5,650</u>			

Question 37: From the following Profit and Loss account of New Mode Reporting Ltd., prepare a gross value added statement for the year ended 31st December, 2010. Show also the reconciliation between GVA and Profit before taxation:

Profit and Loss Account	Z	
F	000s	₹ ′000s
Income		
Sales	12,480	
Other income Z	<u> 110</u>	12,590
Expenditure	\geq	
Production and Operational expenditure	8,640	
Administrative expenses	360	
Interest and other charges	1,248	
Depreciation	32	10,280
Profit before tax		2,310
Less: Provision for tax	ागमय	110
Profit after tax		2,200
Add: balance as per last Balance Sheet		120
		2,320
Less: Transfer to Fixed assets replacement Reserve	800	
Dividend paid	<u>320</u>	<u>1,120</u>
Surplus carried to Balance Sheet		<u>1,200</u>

Additional information:

(i) Production and Operational expenses consists of

₹

		Consumption of Raw materials		64,20,000	
		Consumption of Stores			
		Local tax		16,000	
		Salaries to Administrative staff		12,40,000	
		Other Manufacturing expenses		8,84,000	
	(ii)	Administrative expenses include salaries and commission to dire	ctors –	₹10,000	
	(iii)	Interest and other charges include-			
				₹	
		(a) Interest on bank overdraft			
		(overdraft is of temporary nature)		2,18,000	
		(b) Fixed loan from SIDBI		1,02,000	
		(c) Working capital loan from IFCI		40,000	
		(d) Excise duties		?	
	(iv)	Excise duties amount to one-tenth of total value added by manu	facturin	g and	
		trading activities.			
Solu	ition:				
(a)		O New Mode Reporting Ltd.			
		Value Added Statement for the year ended 31 st Dece	mber, 2	010	
			(Figure	s in ₹ ′000)	
	Sales	F		12,480	
	Less:	Cost of Materials and Services:			
		Production and Operational Expenses (8,640 – 16- 1,240)	7,384		
		Administrative Expenses (360 – 10)	350		
		Interest on Bank Overdraft	218		
		Interest on Working Capital Loan	40		
		Excise Duties (Refer to working note)	360		
		Other/miscellaneous charges (888 – 360)	<u>528</u>	8,880	
	Value a	added by manufacturing and trading activities		3,600	
	Add:	Other Income		110	
	Gross v	value added from operations		3,710	

Application of Gross Value Added

piicatio		₹ in '000	₹in′000	%
То	Pay Employees:			70
10	Salaries to Administrative Staff		1240	33.42
То	Pay Directors:		1240	55.42
10	Salaries and Commission		10	0.27
То	Pay Government:		10	0.27
10	Local Taxes	16		
	Income Tax	<u>10</u>	126	3.40
То	Pay Providers of Capital:	110	120	5.40
10	Interest on Fixed Loan	102		
	Dividend	320	422	11.37
То	Provide for maintenance and expansion of	<u>320</u>	722	11.57
10	the company:			
	depreciation	32		
	Fixed Assets Replacement Reserve 5	800		
	Retained Profit (1200 – 120)	1080	<u>1912</u>	51.54
			3,710	100.00
		NUL		
	Reconciliation between Gross Value a	idded and Pi	rofit before Ta	axation
				₹in′000
Profi	t before Tax		P	2,310
Add	Back: Depreciation		32	
	Salaries to Administrative Staff		1240	
	Directors' Salaries and Commission		10	
	Interest on Fixed Loan		102	
	Local Tax		<u>_16</u>	<u>1400</u>
Total	value added			<u>3710</u>

Wo

orking Note:		
Calculation of excise duty	₹′000	₹′000
Interest and other charges	* P	1,248
Less: Interest on bank overdraft	मा 218	
Interest on SIDBI loan	102	
Interest on IFCI loan	<u>40</u>	<u>360</u>
Excise duty and other charges		<u>888</u>

Assuming that these other /miscellaneous charges will be deducted for arriving at the value added, the excise duty will be calculated as follows:-

Let Excise Duties be denoted by - E Then, other charges = 888 - E Excise duty are $\frac{1}{10th}$ of value added Hence E = $\frac{1}{10th}$ [12,480 - {7,384+ 350+218 + 40+E + (888 - E)}] = 1/10th [12,480-8,880]

 $= \frac{1}{10\text{th}} \times 3,600 = 360$

Other/miscellaneous charge 888 – 360 = ₹528

The above solution has been given accordingly.

Alternatively, if other/miscellaneous charges are considered as application of value added (i.e., not deducted for deriving the value added), calculation of Excise Duties (E) will be as follows:

 $E = \frac{1}{10\text{th}} [12,480 - (7,384 + 350 + 218 + 40 + E)]$

 $E = \frac{1}{10th} \times (4,488 - E)$

11E = 4,488

E = ₹408

And thus other/miscellaneous charges will be ₹888 – 408 = ₹480

Gross Value added in this case will be ₹ 4,080 + 110 (Other income) = ₹4,190

And accordingly, application part will be prepared after taking other/miscellaneous charges.

Question No.38:

M Ltd. Group has three divisions A, B and C. Details of their turnover, results and net assets are given below:

F			2	₹ ('000)
Division A				
Sales to B			2	9,150
Other Sales (Home)				180
Export Sales			\geq	<u>12,270</u>
		=/0		<u>21,600</u>
Division B				
Sales to C		£ /		90
Export Sales to Europe		1 June		<u>600</u>
तमसा			र्गमय	<u>690</u>
Division C				
Export Sales to Americ	а			<u>540</u>
				Divisions
	Head	А	В	С
	Office	Rs('000)	₹ ('000)	₹('000)
	₹ ('000)			
Operating Profit or Loss before tax		480	60	(24)
Re-allocated cost from Head Office		144	72	72
Interest cost		12	15	3

Fixed assets	150	600	120	360
Net current assets	144	360	120	270
Long-term liabilities	114	60	30	360

Prepare a Segmental Report for publication in M Ltd. Group.

Solution:

M Ltd.

Segmental Report

₹ ('000)

					(000)
	Divisions			Inter segment	Consolidated
					Total
	А	В	С	Eliminations	
Segment Revenue		ST A	C		
Sales:		0			
Domestic	180		ANU A	_	180
Export	<u>12,270</u>	<u>600</u>	<u> </u>		<u>13,410</u>
External Sales	12,450	600	540	-	13,590
Inter-segment Sales	<u>9,150</u>	90	P	<u>9,240</u>	
Total Revenue	<u>21,60</u>	<u>690</u>	<u>540</u>	<u>9,240</u>	<u>13,590</u>
Segment result (given)	480	60	(24)		516
Head office expenses					<u>(288)</u>
Operating profit	5		0		228
Interest expense	Z				<u>(30)</u>
Profit before tax			· />/		198
Other information	\\ \		3/6/		
Fixed assets	600	120	360		1,080
Net current assets	<u>360</u>	<u>120</u>	270		<u>750</u>
Segment assets	<u>960</u>	<u>240</u>	<u>630</u>		<u>1,830</u>
Unallocated corporate assets	तमस	। मा	्रिज्योतिर्गम	य	294
Segment liabilities	60	30	360		450
Unallocated corporate					
liabilities					114
	Sale	s Revenue by Geog	graphical Market		(*)
				_	(₹'000)
	Home	Export Sales	Export to	Export to	Consolidated
Futernal Cala-	Sales	(by division A)	Europe	America	Total
External Sales	180	12,27	600	540	13,590

Question 39: Prepare a segmental report for publication in Diversifiers Ltd. from the following details of the company's three divisions and the head office:

			₹(′000)	
Forging Shop Division				
Sales to Bright Bar Division			13,725	
Other Domestic Sales			270	
Export Sales			18,405	
Bright Bar Division			<u>32,400</u>	
			125	
Sales to Fitting Division	T		135	
Export Sales to Rwanda	5	20	<u>900</u>	
	G		<u>1,035</u>	
Fitting Division		ANU/E		
Export Sales to Maldives			<u>810</u>	
Particulars	Head Office	Forging Shop	Bright Bar	Fitting
5		Division	Division	Division
	₹ ('000)	₹ ('000)	₹ ('000)	₹ ('000)
Pre-tax operating result Head office cost reallocated		720	90	(36)
head once cost reallocated		216	108	108
Interest costs		18	24	6
Fixed assets	225	900	180	540
Net current assets	216	540	180	405
Long-term liabilities	171	90	45	540
Solution:	Diversifi	iers Ltd.		
	Segmenta	al Report		
-9	7			(₹′000)
Particulars	तमाहि।	Divisions		((000)
and a	Forging	Bright Bar Fitting	Inter	Consolidated
	shop		Segment	Total
Segment revenue			Eliminations	
Sales:				
Domestic	270		_	270
Export	18,405	900 810		20,115
External Sales	18,675	<u> </u>	-	20,385
Inter-segment sales Total revenue	13,725 <u>32,400</u>	135 – <u>1,035 810</u>	13,860 <u>13,860</u>	-
Segment result (given)	<u>32,400</u> 720	<u>1,055</u> <u>810</u> 90 (36)	<u>13,000</u>	<u>20,385</u> 774
Head office expenses				<u>(432)</u>
Operating profit				342
Interest expense				<u>(48)</u>
Profit before tax	<u></u>			294
The Institute of Cost Accountants of I	ndia (ICAI) [Sta	tutory Body under an Ad	t of Parliamor	tl Page 197

Information in relation to assets and					
liabilities:					
Fixed assets	900	180	540	_	1,620
Net current assets	<u>540</u>	<u>180</u>	<u>405</u>	_	<u>1,125</u>
Segment assets	<u>1,440</u>	<u>360</u>	<u>945</u>		2,745
Unallocated corporate assets					
(225 + 216)	_	_	_	_	441
Total assets					<u>3,186</u>
Segment liabilities	90	45	540	_	675
Unallocated corporate liabilities					171
Total liabilities					<u>846</u>

Sales Revenue by Geographical Market

					((000)
	Home	Export Sales (by	Export to	Export to	Consolidated
	Sales	forging shop	Rwanda	Maldives	Total
		division)			
External sales	270	18,405	900	810	20,385
	6		Z		

Question No.40:

(a) Explain the concept of 'Economic value added' (EVA for short) and its uses.

(b) What is economic value added and how is it calculated? Discuss.

Answer

(a) Economic Value Added (EVA) for short, is primarily a benchmark to measure earnings efficiency. Though the term "Economic Profit" was very much there since the inception of "Economics", Stern Stewart & Co., of USA has got a registered Trade Mark for this by the name "EVA", an acronym for Economic Value Added.

EVA as a residual income measure of financial performance, is simply the operating profit after tax less a charge for the capital, equity as well as debt, used in the business. EVA includes both profit and loss as well as balance sheet efficiency as well as the ROCE, or ROE.

In addition, EVA is a management tool to focus managers on the impact of their decisions in increasing shareholders' wealth. These include both strategic decisions such as what investments to make, which businesses to exit, what financing structure is optimal; as well as operational decisions involving trade-offs between profit and asset efficiency such as whether to make in house or outsource, repair or replace a piece of equipment, whether to make short or long production runs etc.

Most importantly the real key to increasing shareholder wealth is to integrate the EVA framework in four key areas; to measure business performance; to guide managerial decision making; to align managerial incentives with shareholders' interests; and to improve the financial and business literacy throughout the organisation.

To better align managers interests with Shareholders – the EVA framework needs to be holistically applied in an integrated approach – simply measuring EVAs is not enough it must also become the basis of key management decisions as well as be linked to senior management's variable compensation.

(b) Economic Value Added (EVA) is primarily a benchmark to measure earnings efficiency. EVA as a residual income measure of financial performance is simply the operating profit after tax less a charge for the capital employed, equity as well as debt, used in the business.

Mathematically EVA= OPBT – Tax – (TCE × COC)

Where:

OPBT = Opening Profit Before Tax

TCE = Total Capital Employed

COC = Cost of Control

Because EVA includes both profit and loss as well as balance sheet efficiency as well as the opportunity cost of investor capital - it is better linked to changes in shareholders wealth and is superior to traditional financial measures such as PAT or percentage of return measures such as ROCE or ROE.

EVA, additionally, is a tool for management to focus on the impact of their decisions in increasing shareholders wealth. These include both strategic decisions such as what investments to make, which business to exit, what financing structure is optimal; as well as operational decisions involving trade-offs between profit and asset efficiency such as whether to make inhouse or outsource, repair or replace an equipment, whether to make short or long production runs etc.

Most importantly the real key to increasing shareholders wealth is to integrate EVA framework in four key areas, viz., to measure business performance, to guide managerial decision making, to align managerial incentives with the shareholders' interests and to improve the financial and business literacy throughout the organisation.

To better align managers interests with shareholders' - the EVA framework needs to be holistically applied in an integrated approach - simply measuring EVA is not enough; it must also become the basis of key management decisions as well as be linked to senior management's variable compensation.

However, EVA as a strategic tool has the following limitations:

- 1. Not easy to use; too complicated for small businesses.
- 2. Recommends inexpensive debts in order to reduce the cost of capital.
- 3. A passive tool, measures past performance.

Question 41

The following information is available of a concern; calculate	e E.V.A.:
Debt capital 12%	तिर्गमय Rs. 2,000 crores
Equity capital	Rs. 500 crores
Reserve and surplus	Rs. 7,500 crores
Capital employed	Rs. 10,000 crores
Risk-free rate	9%
Beta factor	1.05
Market rate of return	19%
Equity (market) risk premium	10%
Operating profit after tax	Rs.2,100 crores
Tax rate	30%

Solution:

E.V.A. = NOPAT - COCE NOPAT = Net Operating Profit after Tax COCE = Cost of Capital Employed COCE = Weighted Average Cost Of Capital × Average Capital Employed = WACC × Capital Employed **Debt Capital** Rs.2,000 crores Equity capital 500 + 7,500 = Rs.8,000 crores Capital employed 2,000+8,000 = Rs.10,000 crores Debt to capital employed 2,000 =0.2010,000 Equity to Capital employed 8,000 =0.8010,000 Debt cost before Tax 12% Tax (30% of 12%) Less: 3.6% Debt cost after Tax 8.4% According to Capital Asset Pricing Model (CAPM) (n Cost of Equity Capital = Risk Free Rate + Beta × Equity Risk Premium Or Risk Free Rate + Beta (Market Rate – Risk Free Rate) $9 + 1.05 \times (19-9)$ 9 + 1.05 × 10 = 19.5% WACC = Equity to CE x Cost of Equity capital + Debt to CE x Cost of debt = 0.8×19.5% + 0.20× 8.40% 15.60% + 1.68% = 17.28% COCE WACC × Capital employed = 17.28% × 10,000 crores = 1728 crores = E.V.A. NOPAT – COCE = Rs. 2,100 - Rs. 1,728 = Rs. 372 crores =

Question 42:

(a) "The content of corporate social report is essentially based on social objectives." Discuss.

(b) Enumerate the major heads identified for corporate social reporting purposes.

(c) Write short note on Corporate Social Reporting.

Answer

(a) The content of Corporate Social Report is essentially based on the social objectives. Brummet identified five areas wherein social objectives can be traced out, namely, Net Income Contribution, Human Resource Contribution, Public Contribution, Environmental Contribution and Product or Service Contribution.

In view of the social objectives, the importance of earning objective is not understated, rather attainment of social objectives is dependent on earning objective. A sick business entity becomes liability to the society and sustains social costs instead of generating social benefits.

Human Resource Contribution is the indicator of the impact of organisational activities (viz. pay and allowances, perks and incentives, recruitment, training and development, placement, promotion and transfer, welfare measure, etc.) on people of the organisation. Public Contribution is the indicator of general philanthropy in the cultural and social welfare programmes and contribution to national exchequer by way of tax and duties.

Industrial activity is supposed to consume irreplaceable resources and produces solid wastes. By this process it pollutes air and water, causes noise and spoils the environment. These are termed as negative social effects. The corporate social objective is the abatement of such negative effect. It is covered by environmental contribution.

Lastly, the Product or Service Contribution covers the qualitative aspects of the organisation's product or service. It includes quality guarantee, redressal of customers' grievances, honest exposure in advertisement etc.

Although Brummet covered wide range of objectives, still these are not essentially exhaustive. Social objectives are determined by socio-economic conditions of a country. It is difficult to set universal list of social objectives to be pursued by the corporate sector. For example, in India, regional imbalance, unemployment, reservation for weaker sections of the population, scarcity of foreign exchange, energy deficit, population pressure and illiteracy are some of the widely accepted socio-economic problems. And obviously the general expectation is that the corporate sector will positively contribute to such socio-economic problems. Since the socio-economic problems of a country change over time or the priority attached to a problem shifts. Brummet's over simplified set of contributions should be suitably moulded to fit in the perspective of socio-economic problems of a country.

- (b) Considering the major socio-economic problems of the country, eight major heads may be identified for Social Reporting purposes:
 - I. Employment Opportunities.
 - II. Foreign Exchange Transactions
 - III. Energy Conservation.
 - IV. Research and Development.
 - V. Contribution to Government Exchequer.
 - VI. Social Projects
 - VII. Environmental Control.

VIII. Consumerism.

I. Creation of employment opportunities during the year may be classified into opportunities in India and opportunities abroad. In India employment may be created either by expansion/diversification in backward or other areas. However, employment protection by absorption of sick units may also be treated as employment opportunities. Moreover, the corporate enterprise may create new openings abroad by adopting foreign projects. In all such cases, quantitative information needs to be disclosed giving break-up of SC/ST persons, physically handicapped persons, women and other workers appointed during the year. Tax advantage or subsidy received for establishing industrial units in backward areas or absorption of sick units should be disclosed properly. If the corporate enterprise follows human resource accounting system, it may show human assets created during the year and costs incurred for such purpose.

- II. In view of the scanty foreign exchange reserve, it is desirable to disclose foreign exchange transactions in details. Foreign exchange inflows occur by exports or earnings from foreign projects. Also saving in foreign exchange is equivalent to foreign exchange inflows. An enterprise can save foreign exchange by import substitution and replacement of foreign technology/technician. Foreign exchange outflows are caused by purchase of' raw materials/spares, plant and machinery capital repayment, payment of dividend and interest. It is desirable to report inflows and outflows for each currency separately and a summary statement in Indian currency. Any tax advantage/export subsidy received for foreign exchange ernings should be disclosed as an item of social cost.
- III. Energy purchased/generated and energy consumed per unit of standard product are to be reported along with consumption norm of the industry. Energy Audit Reports prepared by BICP may be followed for industry norms wherever applicable. Positive/negative variation in energy consumption should be reported along with reasons therefor.
- IV. Recurring/non-recurring cost incurred for research and development is to be reported along with results. If possible, effect of research and development activities may be quantified in terms of cost saved/profit added. Any tax advantage/subsidy received is to be reported as social cost incurred along with the generation of social benefits from research and development.
- V. Contribution to Government exchequer by way of sales tax, income tax, excise, custom and other duties needs to be reported as an item of social benefits.
- VI. Contribution to social projects may be further classified into direct involvement of corporate enterprise and donations to different organisations. Social projects like construction of road, establishment of school, college, research institute, hospital, stadium, etc. may be earmarked alongwith the categories of beneficiaries and cost involved.

In case of donation to any organisation, the nature of the organisation may be stated along with the tax advantage received by way of such donations.

(Contribution of the corporate enterprise for development of sports and games, cultural matters and self-employment programmes may be reported as creation of social benefit).

- VII. Negative social effect caused by the corporate enterprise may be quantified stating use of irreplaceable resources and nature of pollution caused. Action taken and cost involved for pollution control should be reported as an item of social benefit.
- VIII. Failures in terms of complaints received against improper quality, poor service etc. may be reported under social costs. Action taken and cost involved for undertaking quality control and customers' service should be reported under social benefits.
- (c) Corporate Social Reporting is the information communique with respect to discharge of social responsibilities of corporate entity. The transition in accounting function from historical cost based profitability accounting to social responsibility accounting is a good fit to the present-day data requirement of the "Users of accounts".

The content of Corporate Social Report is essentially based on the social objectives, namely Net Income Contribution, Human Resource Contribution, Public Contribution, Environmental Contribution and Product or Service Contribution.

Considering the major socio-economic problems of the country, eight major heads can be identified for social reporting purpose:

- (i) Employment Opportunities;
- (ii) Foreign Exchange Transactions;
- (iii) Energy Conservation;
- (iv) Research and Development;
- (v) Contribution to Government Exchequer;
- (vi) Social Projects;
- (vii) Environmental Control;
- (viii)Consumerism.

Initially, it is difficult to express social costs incurred by a corporate enterprise and social benefits generated in money terms. Until suitable methologies are available for conversion of social cost-benefit in money terms, it is desirable to begin with descriptive social report. Further research is necessary in this area either to improve heads of corporate social reporting in the context of dynamic socio-economic environment.

Question 42:

From the following information taken from the books of F Ltd. relating to staff and community benefits, prepare a statement classifying the various items under the appropriate heads, required under Corporate Social Reporting.

	Rs.
Environmental Improvements	20,10,000
Medical facilities	45,00,000
Training Programmes	10,25,000
Generation of Job Opportunities	60,75,000
Municipal Taxes	10,70,000
Increase in cost of living in the vicinity due to a	
thermal power station	16,55,000
Concessional transport, water supply	11,25,000
Extra work put in by staff and officers for drought	18,50,000
relief	
Leave encashment and leave travel benefits	52,00,000
Educational facilities for children of staff members	21,60,000
Subsidised canteen facilities	14,40,000
Generation of business	25,00,000

F Ltd.

I. Soci	al Bene	<i>tement relating to staff and community benefits</i> fits and Cost to Staff al Benefits to Staff	Rs.
Α.	1.	Medical facilities	45,00,000
	2.	Training programmes	10,25,000
	3.	Concessional transport, water supply	11,25,000
	4.	Leave encashment and leave travel benefits	52,00,000
	5.	Educational facilities for children of staff members	21,60,000
	6.	Subsidised canteen facilities	14,40,000
	Socia	al Costs to Staff	<u>1,54,50,000</u>
В.		Extra work put in by staff and officers for drought relief	18,50,000
Net So	ocial Be	nefits to Staff (A - B)	<u>1,36,00,000</u>
II. Soc	ial Ben	efits and Cost to Community	
A.	So	ocial Benefits to Community	20,10,000
	1.	Environmental improvements	60,75,000
	2.	Generation of job opportunities	

		10,70,000
	3. Municipal taxes	25,00,000
	4. Generation of business	<u>1,16,55,000</u>
		Total
В.	Social Costs to Community	
	Increase in cost of living in the vicinity d thermal power station	ue to a <u>16,55,000</u> <u>1,00,00,000</u>
	Social Benefits to Community (A – B)	CZ
Question		S
	n the following information of Steel India Ltd. for t al Balance Sheet as on that date:	he year ended 31 st March, 2011, prepare their
- A	specialist has valued their human assets at Rs.828	lakhs.
- Tł	neir investments were classified as:	
	S	(Rs. in lakhs)
	Residential Hospita	
Buil	dings 17.00 1.00	
	ipments 2.80 1.00	
	ater, electricity and gas supply systems totalled Rs	.1 lakh.
- Th	eir Net owned funds were Rs.26 lakhs.	
Answer:	Social Balance Sheet of Steel Indi	(Rs. in lakhs)
	anization Equity	26.00
-	al Equity (Contribution by staff)	<u>828.00</u>
Tota		<u>854.00</u>
Asse		
Soci	al Capital Investment:	
(a)	Buildings	
	(i) Residential	17.00
	(ii) Hospital	1.00

	(iii)	School	1.40	
	(iv)	Welfare	0.80	20.20
(b)	Equi	pments		
	(i)	Residential	2.80	
	(ii)	Hospital	1.00	
	(iii)	School	<u>1.00</u>	4.80
(c)	Wat	er, Electricity and Gas supply systems		1.00
Human assets (as valued by the specialist)			<u>828.00</u>	
Tota	al			<u>854.00</u>

Question 44:

Write short notes on:

- (a) Jaggi and Lau model on valuation on group basis of Human Resources.
- (b) Opportunity cost (HRA).
- (c) Human Resource Accounting.

Answer

- (a) According to Jaggi and Lau Model, proper valuation of human resources is not possible unless the contributions of individuals as a group are taken into consideration. A group refers to homogeneous employees whether working in the same department or division of the organisation or not. An individual's expected service tenure in the organisation is difficult to predict but on a group basis it is relatively easy to estimate the percentage of people in a group likely to leave the organisation in future. This model attempted to calculate the present value of all existing employees in each rank. Such present value is measured with the help of the following steps:
 - (i) Ascertain the number of employees in each rank.
 - (ii) Estimate the probability that an employee will be in his rank within the organisation or terminated/promoted in the next period. This probability will be estimated for a specified time period.
 - (iii) Ascertain the economic value of an employee in a specified rank during each time period.
 - (iv) The present value of existing employees in each rank is obtained by multiplying the above three factors and applying an appropriate discount rate. Jaggi and Lau simplified the process of measuring the value of human resources by considering a group of employees as valuation base. But in the process, they ignored the exceptional qualities of certain skilled employees. The performance of a group may be seriously affected in the event of exit of a single individual.
- (b) Opportunity Cost: It is one of the Economic value models used for measurement and valuation of Human assets. As per this model, opportunity cost is the value of an employee in his alternative use. This opportunity cost is used as a basis for estimating the value of Human resources. Opportunity cost value may be established by competitive bidding within the firm so that in effect, Managers must bid for any scarce employee. A Human asset will have a value only if it is a scarce resource, that is, when its employment in one division denies it to another division. This method excludes employees of the type of which can be readily hired from outside the firm. Also, it is in very rare cases that managers would like to bid for an employee.

(c) Human Resource Accounting (HRA) is an attempt to identify, quantify and report investments made in human resources of an organization. Leading public sector units like OIL, BHEL, NTPC and SAIL etc. have started reporting human resources in their annual reports as additional information. Although human beings are considered as the prime mover for achieving productivity, and are placed above technology, equipment and money, the conventional accounting practice does not assign significance to the human resource. Human resources are not thus recognized as 'assets' in the Balance Sheet. While investments in human resources are not considered as assets and not amortised over the economic service life, the result is that the income and expenditure statement comprising current revenue and expenditure gives a distorted picture of the real affairs of the organization.

Accountants have been severely criticized by the Behavioural Scientists for their failure to value human resources, as this has come out as a handicap for effective management.

Human resource accounting provides scope for planning and decision making in relation to proper manpower planning. Also, such accounting can bring out the effect of various new rules, procedures and incentives relating to work force, and in turn, can act as an eye opener for modifications of existing statutes and laws.

Question 45: Briefly describe the method of valuation of human resources as suggested by Jaggi and Lau. Also point out the special merit and demerit of this method.

Answer

Jaggi and Lau suggested a model for valuation of human resources. According to them, proper valuation of human resources is not possible unless the contributions of individuals as a group are taken into consideration. A group refers to homogeneous employees whether working in the same department or division of the organization or not. An individual's expected service tenure in an organization is difficult to predict, but on a group basis, it is relatively easy to estimate the percentage of people in a group likely to leave the organization in future. This model attempts to calculate the present value of all existing employees in each rank. Such present value is measured with the help of the following steps:

- (i) Ascertain the number of employees in each rank.
- (ii) Estimate the probability that an employee will be in his rank within the organization on terminated/promoted in the next period. This probability will be estimated for a specified time-period.
- (iii) Ascertain the economic value of an employee in a specified rank during each time period.
- (iv) The present value of existing employees in each rank is obtained by multiplying the above three factors and applying an appropriate discount rate.

Jaggi and Lau tried to simplify the process of measuring the value of human resources by considering a group of employees as basis of valuation. But in the process they ignored the exceptional qualities of certain skilled employees. The performance of a group may be seriously affected in the event of exit of a single individual.

Merit

Jaggi and Lau model approached the valuation of human resources on the basis of grouping of employees. Under this method, calculations get simplified and the chances of errors get reduced.

Demerit

This model ignores individual skills of the employees. The varied skills of the employees is not recognized in the valuation process under Jaggi and Lau model.

Question 46(a)

Why Human Resources Asset is not recognised in the Balance sheet?

Answer

Although human beings are considered as the prime mover for achieving productivity, and are placed above technology, equipment and money, the conventional accounting practice does not assign significance to the human resources. Human resources are not recognized in balance sheet as there are no measurement criteria for recognition of human resources. Human resource accounting is at developing stage and no accounting principles have been established for valuation of human assets. Costs incurred on human resources are recognised as expenses in profit and loss account. Leading public sector units like OIL, BHEL, NTPC and SAIL etc. have started reporting human resources in their annual reports as additional information.

Question 46 (b)

A company has a capital base of Rs.1 crore and has earned profits to the tune of Rs.11 lakhs. The Return on Investment (ROI) of the particular industry to which the company belongs is 12.5%. If the services of a particular executive are acquired by the company, it is expected that the profits will increase by Rs.2.5 lakhs over and above the target profit.

Determine the amount of maximum bid price for that particular executive and the maximum salary that could be offered to him.

Answer

(b)	Capital E	Base			Rs.1	L,00,00,0 <mark>0</mark> (D
	Actual P	rofit		-	Rs.	11,00,0 <mark>0</mark> 0)
	Target	Profit	@	1	Rs.	12,50,0 <mark>0</mark> 0)
12 50/					1		

12.5%

Expected Profit on employing the particular executive

= Rs.12,50,000 + 2,50,000 = Rs.15,00,000

Additional Profit = Expected Profit – Actual Profit

= 15,00,000 - 11,00,000 = Rs.4,00,000

Maximum bid price = Additional Profit Rate of Return on Investment

$$= \frac{4,00,000}{12.5} \times 100 = \text{Rs.32,00,000}$$

Maximum salary that can be offered = 12.5% of Rs.32,00,000 i.e., 4,00,000

Maximum salary can be offered to that particular executive upto the amount of additional profit i.e., Rs.4,00,000.

Question 47

- (a) What are derivatives and what are its characteristics?
- (b) Explain currency options related to foreign exchange.
- (c) Write short note on Interest Rate Swaps.

(a) Derivative is a product whose value is derived from the value of one or more basic variables, called bases (underlying asset, index or reference rate), in a contracted manner. The underlying asset can be equity, forex, commodity or any other asset. For example, farmers may wish to sell their harvest of wheat at a future date to eliminate the risk of a change in prices by that date. Such a transaction is an example of a derivative. The price of the derivative is driven by the spot price of wheat which is the "underlying asset".

Derivative financial instruments can either be on the balance-sheet or off the balance sheet and include options contract, interest rate swaps, interest rate flows, interest rate collars, forward contracts, futures etc. A derivative instrument is therefore a financial instrument or other contract with the following three characteristics:

- (a) It has one or more underlying and one or more notional amounts or payments provisions or both. These terms determine the amount of settlement or settlements and in some cases, whether or not settlement is required;
- (b) It requires no initial net investment or an initial net investment that is smaller than what is required for similar responses to changes in market factors.
- (c) Its terms require or permit net settlement; it can readily be settled net by means outside the contract or it provides for delivery of an asset that puts the recipient in a position not substantially different from net settlement.

Accounting for foreign exchange derivatives is guided by AS 11 (Revised 2003). The ICAI has also issued a Guidance Note dealing with the accounting procedures to be adopted while accounting for Equity Index Options and Equity Stock Options.

- (b) Currency Options give the client the right, but not the obligation, to buy/sell a specific amount of currency at a specific price on a specific date. Currency options provide a tool for hedging foreign exchange risk arising out of the firm's operations. Currency options enable the business house to remove downside risk without limiting the upride potential. Options can be put option or call option. A put option is a contract that specifies the currency that the holder has the right to sell. A call option is a contract that specifies the currency that the holder has the right to buy.
- (c) Interest rate swap can be defined as a financial contract between two parties (called counter parties) to exchange on a particular date in the future, one series of cash flows (fixed interest) for another series of cash flows (variable or floating interest) in the same currency on the same principal (an agreed amount called notional principal) for an agreed period of time. The contract will specify the interest rates, the benchmark rate to be followed, the notional principal amount for the transaction, etc. Interest rates are of two types, fixed interest rates and floating rates which vary according to changes in a standard benchmark interest rate. An investor holding a security which pays a floating interest rate is exposed to interest rate risk. The investor can manage this risk by entering into an interest rate swap.

Question 48(a)

Mr. Investor buys a stock option of ABC Co. Ltd. in July, 2009 with a strike price on 30.07.2009 of Rs. 250 to be expired on 30.08.2010. The premium is Rs. 20 per unit and the market lot is 100. The margin to be paid is Rs. 120 per unit.

Show the accounting treatment in the books of Buyer when:

- (i) the option is settled by delivery of the asset, and
- (ii) the option is settled in cash and the index price is Rs. 260 per unit.

		Association entries in the backs of house			
2000		Accounting entries in the books of buyer	r	0-	Da
2009		At the time of inception	Du	<i>Rs.</i>	Rs.
July		Stock option premium account	Dr.	2,000	2 000
		To Bank account			2,000
		(Being premium paid to buy a stock option)			
		Denesit for margin manay account	D#	12,000	
		Deposit for margin money account	Dr.	12,000	12 000
		To Bank account			12,000
		(Being margin money paid on stock option)			
. .		At the time of settlement			
August	(i)	Option is settled by delivery of the asset	_		
		Shares of ABC Ltd. account	Dr.	25,000	
		To Deposit for margin money account			12,000
		To Bank account			13,000
		(Being option exercised and shares acquired, Rs.			
		12,000 margin money adjusted and the balance			
		amount was paid)			
		Profit and loss account	Dr.	2,000	
		To Stock option premium account			2,000
		(Being the premium transferred to profit and loss			
		account on exercise of option)			
	(ii)	Option is settled in cash			
		Profit and loss account	Dr.	2,000	
		To Stock option premium account			2,000
		(Being the premium transferred to profit and loss			
		account)			
		Bank account (Rs. 100 \times 10)	Dr.	1,000	
		To Profit and loss account			1,000
		(Being profit on exercise of option)			
		Bank account	Dr.	12,000	
		To Deposit for margin money account			12,000
		(Being margin on equity stock option			
		received back on exercise of option)			
uestion 48(b)		नमसा गाए 🕅 🕅			
		" Pierre and	'J		

Question 48(b)

On 24th January, 2011 Chinnaswamy of Chennai sold goods to Watson of Washington, U.S.A. for an invoice price of \$40,000 when the spot market rate was Rs.44.20 per US \$. Payment was to be received after three months on 24th April, 2011. To mitigate the risk of loss from decline in the exchange-rate on the date of receipt of payment, Chinnnaswamy immediately acquired a forward contract to sell on 24th April, 2011 US \$ 40,000 @ Rs.43.70. Chinnaswamy closed his books of account on 31st March, 2011 when the spot rate was Rs.43.20 per US \$. On 24th April, 2011, the date of receipt of money by Chinnaswamy, the spot rate was Rs.42.70 per US \$.

Pass journal entries in the books of Chinnaswamy to record the effect of all the above mentioned effects.

	Journal Entries in the books of Chinnaswamy		
2011		Rs.	Rs.
Jan. 24	Watson	17,68,000	
	Dr.		
	To Sales Account		17,68,000
	(Credit sales made to Watson of Washington, USA for \$40,000 recorded at spot market rate of Rs.44.20 per US \$)		
<i>וו</i> וו	Forward (Rs.) Contract Receivable Account Dr.	17,48,000	
	Deferred Discount Account	20,000	
	Dr.		
	To Forward (\$) Contract Payable		17,68,000
	(Forward contract acquired to sell on 24 th April,		
	2006 US \$40,000 @ Rs.43.70)		
March 31	Exchange Loss Account	40,000	
	Dr.	5	
	To Watson		40,000
	(Record of exchange loss @ Re.1 per \$ due to		
	market rate becoming Rs.43.20 per US \$ rather than Rs.44.20 per US \$)		
,, ,,	Forward (\$) Contract Payable	40,000	
	Dr.		
	To Exchange Gain Account	/	40,000
	(Decrease in liability on forward contract due to fall		
	in exchange rate)		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Discount Account	14,667	
	Dr. HILL Works		
	To Deferred Discount Account	मिय	14,667
	(Record of proportionate discount expense for 66		
	days out of 90 days)		
April 24	Bank Account	17.09.000	
April 24	Dr.	17,08,000	
	Exchange Loss Account	20,000	
	Dr.	-,	
	To Watson		17,28,000
	(Receipt of \$40,000 from Watson, USA customer @		
	Rs.42.70 per US \$; exchange loss being Rs.20,000)		
<i>n u</i>	Forward (\$) Contract Payable Account Dr.	17,28,000	

Revisionary Test Paper for June 2012 Examination

		To Exchange Gain Account	20,000
		To Bank Account	17,08,000
		(Settlement of forward contract by payment of \$40,000)	
"	"	Bank Account 17,48,000	
		Dr.	
"	"	To Forward (Rs.) Contract Receivable	17,48,000
		(Receipt of cash in settlement of forward contract receivable)	
"	"	Discount Account 5,333	
		Dr.	
		To Deferred Discount Account	5,333
		(Recording of discount expense for 24 days:	
		Rs.20,000 × $\frac{24 \text{ days}}{90 \text{ days}}$ =Rs.5,333)	
		TANTS OF IND THE STREET	