#### Paper-16: Advanced Financial Accounting & Reporting

Time Allowed: 3 Hours

Full Marks: 100

The figures in the margin on the right side indicate full marks.

Working Notes should form part of the answer.

"Whenever necessary, suitable assumptions should be made and indicated in answer by the candidates."

Part A questions are compulsory. Attempt all of them

Part B has seven question. Attempt any five of them

Part A (25 marks)

- 1. (a) In each of the cases given below, one out of four alternatives is correct. Indicate the correct answer (= 1 mark) and give your workings/reasons briefly (= 1 mark): [10×2=20]
- (i) M/s. XYZ Ltd. has three segments namely X, Y, Z. The total assets of the Company are: Segment X ₹ 2.00 crores, Segment Y ₹ 6.00 crores and Segment Z ₹ 12.00 crores. Deferred tax assets included in the assets of each Segments are: X ₹ 1.00 crores, Y ₹ 0.80 crores and Z ₹ 0.60 crores. As per AS 17
  - A. X, Y and Z are reportable segments
  - B. Only X and Y are reportable segments
  - C. Only X and Z are reportable segments
  - D. Only Y and Z are reportable segments
- (ii) Ding-Dong Construction Ltd. undertook a contract on January 1, 2014 to construct a building for ₹ 140 lakhs. The Company found on March 31, 2014 that it had already spent ₹ 104 lakhs on the construction. Prudent estimate of additional cost for completion was ₹ 56 lakhs. Contract value to be recognized as Turnover in the final accounts for the year ended March 31, 2014 as per AS-7 (revised) will be
  - A. ₹ 105 lakhs
  - B.₹100 lakhs
  - C.₹91 lakhs
  - D. None of these
- (iii) P&P Ltd. bought a forward contract for three months of US \$ 2,00,000 on 1st March at 1 US \$ = ₹ 50.10 when spot exchange rate was US \$ 1 = ₹ 50.11. On 31 st March when the books were closed forward exchange rate for two months was US \$ 1 = ₹ 50.15. On 30th April, the contract was sold at ₹ 50.18 per dollar. As per AS 30, the profits from sale of contract to be recognized in the P & L A/c will be :
  - A.₹2,000
  - B.₹10,000
  - C.₹6,000
  - D. None of these
- (iv) A&B Ltd. obtained a Loan from a bank for ₹ 240 lakhs on 30.04.2013. It was utilized for : Construction of a shed ₹ 100 lakhs, Purchase of a machinery ₹ 80 lakhs, Working Capital

₹ 40 lakhs, Advance for purchase of truck ₹ 20 lakhs, Construction of shed was completed in March 2015. The machinery was installed on the same date. Delivery truck was not received. Total interest charged by the bank for the year ending 31.03.2015 was ₹ 36 lakhs. As per AS 16, Interest to be debited to Profit & Loss Account will be :

A. ₹ 36 lakhs

B.₹21 lakhs

- C.₹9 lakhs
- D. None of these
- (v) Amrit Ltd. has provided depreciation in accounts for ₹ 160 lakhs, but as per tax records it is ₹240 lakhs. Unamortized preliminary expenses, as per tax records is ₹80,000. There is adequate evidence of future profit sufficiently. Tax rate is 30%. How much deferred tax assets/liability should be recognized as per AS-22?

A. ₹ 24.00 lakhs B. ₹ 23.76 lakhs C. ₹ 11.88 lakhs D. Nil

(vi) Parthan Ltd. reports quarterly and estimates an annual income of ₹200 crores. Assume Tax rates on first ₹100 crores at 30% and on the balance income at 40%. The estimated quarterly incomes are ₹15 crores, ₹50 crores, ₹75 crores and ₹60 crores respectively. The Tax expenses to be recognized in the last quarter as per AS-25 is

A. ₹24 crores

- B. ₹21 crores
- C. ₹19 crores
- D. Insufficient Information
- (vii) Rajrshii Ltd. ordered 16,000 kg. of certain material at ₹160 per unit. The purchase price includes excise duty ₹10 per kg. in respect of which full CENVAT credit admissible. Freight incurred amounted to ₹1,40,160. Normal transit loss is 2%. The company actually received 15,500 kg. and consumed 13,600 kg. of material. The cost of inventory as per AS 2 will be A. ₹ 3,20,644
  B. ₹ 3,01,644
  C. ₹ 3,07,800
  - D. None of these
- (viii) As per records of Pelf Fin Stock Ltd. Net Profit for the current year ₹ 199.20 lakhs, No. of Equity Shares outstanding 100 lakhs, No. of 12% Convertible Debentures of ₹ 100 each 2 lakhs, Each Debenture is convertible into 10 equity shares, Tax Rate 30%, As per AS 20, Diluted Earnings Per Share is :

   A. ₹ 1.66
  - A. ₹ 1.86
  - C. ₹ 1.80
  - D. None of these
- (ix) Prarthana Ltd. is in engineering industry. The company received an actuarial valuation for the first time for its pension scheme which revealed a surplus of ₹6 lakhs. It contributes ₹5 lakhs annually for its pension schemes. The average remaining life of the employee is estimated to be 6 years. As per AS 15 (Revised)

A. Surplus of ₹6 lakhs in the pension scheme on its actuarial valuation is required to be credited to the Profit and Loss Statement for the current year

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B. Surplus of ₹6 lakhs can be spread over the next 2 years by reducing the annual contribution to ₹2 lakhs instead of ₹5 lakhs

C. Surplus of ₹6 lakhs is to be spread over the average remaining life of the employees of 6 years by crediting to the Profit and Loss Statement of each year D. None of these

(x) S. S. Corporate Securities Ltd. is showing an intangible asset at ₹ 72 lakhs as on 01.04.2014 and that an item was acquired for ₹ 96 lakhs on 01.04.2011 and that the item was available for use from that date. It has been following the policy of amortisation of the intangible asset over a period of 12 years on straight line basis. As per AS 26

A. ₹ 4.8 lakhs should be adjusted against the current year's profits

B. ₹ 4.8 lakhs should be adjusted against the opening balance of revenue reserves

C.  $\gtrless$  9.6 lakhs should be adjusted against the opening balance of revenue reserves D. None of these

#### Answer:

#### (i) — D: Only Y and Z are reportable segments.

According to AS 17 "Segment Reporting", Segment Assets do not include income tax assets.

Therefore, the revised total assets are 17.6 crores [20 crores - (1.00+0.80+0.60)].

Segment X holds total assets of 0.5 crore (2 crore – 1 crore); Segment Y holds 5.20 crores (3 crores – 0.80 crores); and Segment Z holds 11.40 crores (12 crores – 0.60 crores). Thus, Only Z and Y hold more than 10% of the total assets and hence, only Y and Z are reportable segments.

#### (ii)— C : ₹91.00 lakhs.

Contract work-in-progress (104÷ 140) lakh = 65% Proportion of total contract value to be recognized as Turnover = 0.65 x ₹140,00,000 = ₹91 lakh.

#### (iii) — C: ₹6,000.

Sale Rate	₹ 50.18
Less: Fair Value on 31st March	₹ <u>50.15</u>
Premium on Contract	₹ 0.03
Contract Amount	US\$ 2,00,000
Total Profit (2,00,000 × 0.03)	₹ 6,000

#### (iv) — B. ₹ 21 lakhs.

Qualifying Asset as per AS-16 = ₹ 100 lakhs (construction of a shed) Borrowing cost to be capitalized =  $36 \times 100/240 = ₹ 15$  lakhs Interest to be debited to Profit or Loss account = ₹ (36 - 15) lakhs = ₹ 21 lakhs

#### (v) — B : ₹ 23.76 lakhs.

The difference between taxable income and accounting income. Excess depreciation as per tax (240 - 160) = ₹ 80.00 lakhs Less, Expenses provided to taxable income = ₹ 0.80 lakhs Timing difference = ₹ 79.20 lakhs So, deferred tax liability = ₹ 79.20 lakhs x 30% = ₹ 23.76 lakhs

#### (vi) — B : ₹21 Crores.

Tax Expenses : 30% on ₹100 Crores = ₹30 Crores.

40% on remaining ₹100 Crores = ₹40 Crores. Total Tax = (30 + 40) = ₹70 Crores. Weighted average Annual Income Tax Rate [70 ÷ 200] = 35% Tax expenses to be recognized in last quarter: 35% on ₹60 Crores = ₹21 Crores.

#### (vii) — C: ₹ 3,07,800.

Revised cost per kg. = [25,60,000 - 1,60,000 + 1,40,160]/(16,000 kg.× 98%) = 162Cost of Closing inventory = (15,500 kg - 13,600 kg) × 162 = ₹ 3,07,800

#### (viii) — C: ₹ 1.80.

Adjusted Net Profit for the current year (199.2+24-7.2) = ₹ 216 lakhs No. of equity shares resulting from conversion of debentures: 20,00,000 Shares No. of equity shares used to compute diluted EPS: (100,00,000 + 20,00,000) = 120,00,000 Shares Diluted earnings per share: (216,00,000/120,00,000) = ₹ 1.80

# (ix) — A: Surplus of $\overline{\mathbf{f}}$ 6 lakhs in the pension scheme on its actuarial valuation is required to be credited to the Profit and Loss Statement for the current year.

According to para 92 of AS 15 (Revised) "Employee Benefits", actuarial gains and losses should be recognized immediately in the statement of profit and loss as income or expense.

#### (x) — B: ₹ 4.8 lakhs should be adjusted against the opening balance of revenue reserves.

As per para 63 of AS 26 "Intangible Assets", the depreciable amount of an intangible asset should be allocated on a systematic basis over the best estimate of its useful life. There is a rebuttable presumption that the useful life of an intangible asset will not exceed ten years from the date when the asset is available for use. Amortisation should commence when the asset is available for use.

The company has been following the policy of amortisation of the intangible asset over a period of 12 years on straight line basis. The period of 12 years is more than the maximum period of 10 years specified under AS 26. Accordingly, The company would be required to restate the carrying amount of intangible asset as on 1.4.2013 at ₹ 96 lakhs less ₹ 28.8 lakhs (₹ 9.6 lakhs × 3 years) = ₹ 67.2 lakhs. If amortisation had been as per AS 26, the carrying amount would have been ₹ 67.2 lakhs. The difference of ₹ 4.8 lakhs i.e. (₹ 72 lakhs – ₹ 67.2 lakhs) would be required to be adjusted against the opening balance of revenue reserves. The carrying amount of ₹ 67.2 lakhs would be amortised over 7 (10 less 3) years in future.

(b)Five Star Ltd. expects that a plant has become useless which is appearing in the books at ₹20 lakhs gross value. The Company charges SLM depreciation on a period of 10 years estimated scarp value of 3%. At the end of 7th year the plant has been assessed as useless. Its estimated net realizable value is ₹6,20,000. Determine the loss/gain on retirement of the fixed assets.

#### Answer:

Cost of the plant	₹20,00,000
Estimated realizable value	₹60,000
Depreciable amount	<u>₹19,40,000</u>
Depreciation per year	₹1,94,000

Written down value at the end of 7<sup>th</sup> year = ₹20,00,000 - ₹(1,94,000 x 7) = ₹6,42,000

As per Para 14.2 of AS-10, items of fixed assets that have been retired from active use and are held for disposal are stated at the lower of their net book value and net realizable value and are shown separately in the financial statements. Any expected loss is recognized immediately in the profit and loss statement. Accordingly, the loss of ₹22,000 (6,42,000 - 6,20,000) to be shown in the profit and loss account and asset of ₹6,20,000 to be shown in the balance sheet separately.

#### Part B (75 marks)

2. The draft consolidated data of A Ltd., and its 100% subsidiary B Ltd. and also information of C Ltd. relating to the yearend 31<sup>st</sup> March, 2014 is given below:

DRAFT BALANCI	DRAFT BALANCE SHEET	
	CBS of A Ltd. and its	C Ltd.
	100% Subsidiary B Ltd.	
Issued ordinary share capital	2,000	1,000
Reserves	3,450	2,000
Debentures	2,000	1,500
Current liabilities	4,550	2,500
Total	12,000	7,000
Fixed assets (net)	6,500	4,000
Investment in C Ltd. at cost	2,000	-
Current assets	3,500	3,000
Total	12,000	7,000

#### PROFIT AND LOSS ACCOUNT (DRAFT)

	A Ltd and its 100%	C Ltd.
	Subsidiary B Ltd.	
Sales	2,000	1,200
Expenses	(900)	(500)
Trading profit before tax	1,100	700
Dividend from Uncertain Ltd.	100	_
Taxation	(600)	(200)
Profit after tax	600	500
Opening Balance	3,150	1,100
Dividends paid	(300)	(200)
Retained Profit	3,450	1,400

A Ltd. acquired 50% of the ordinary share capital of C Ltd. on 1<sup>st</sup> April, 2013 for ₹2,000 thousands when its reserves were ₹1,700 thousands and sold this holding on 3<sup>rd</sup> April, 2014 for ₹2,050 thousands.

You are required to prepare the 'Group' Profit and Loss account (draft) and Balance Sheet (draft) on four bases as follows:

1. When C Ltd. is treated as a subsidiary

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- 2. When C Ltd. is treated as an associated company
- 3. When C Ltd. is treated as an investment
- 4. When C Ltd. is treated as a Joint Venture.

[15]

#### Answer:

#### When C Ltd. is treated as a subsidiary or an Investment company

	Particulars	Subsidiary	Investment
a.	Accounting Standard Applicable	21	13
b.	Method	Full Consolidation	Cost method
с.	Date of Acquisition	1 <sup>st</sup> April 2013	1 <sup>st</sup> April 2013
d.	Shareholding	A Ltd -50%	
		Minority Int 50%	Not applicable
e.	Analysis of reserves	<ol> <li>Dpening balance 1,700 thousands pre- acquisition</li> <li>Current year retained profit 300 thousands post-acquisition</li> </ol>	Not applicable
f.	Apportionment of Profits		
	1) Pre-acquisition	1) A Ltd 850 thousand 2) Minority – 850 thousands	Not applicable
	2) Post-acquisition		
		1) A Lta150 thousands 2) Minority 150 thousands	
a	Outsider's interest	Minority Interest	
9.		1) Share capital - 500 thousands	
		2) Pre-acquisition - 850 thousands	
		3) Post acquisition - <u>150</u> thousands	
		Total 1500 thousands	
h.	Goodwill/Capital	1) Cost of Investment - <u>2,000</u> .	
	Reserve	thousands	
		2) Share of Net Assets on the date	Not applicable
		Share Capital 500 thousands	
		- Capital Profits 850 thousands	
		1350 thousands	
		3) Goodwill 650 thousands	
١.	Inter Company		
	Transactions		Not applicable
	1) Inter Company Owings	Eliminate in full	
<u> </u>	2) Unrealised Profits	Eliminate in full	
J.	Reserves for CBS	*	Not applicable
k.	Carrying amount of	Nil	2000 thousand
	Investment in CBS		

#### When C Ltd. treated as an associated company or as a Joint Venture

	Particular	rs	Associate	Joint venture
a.	Accounting	Standard	23	27

	Applicable		
b.	Method	Equity method	Proportionate
			consolidation
с.	Date of Acquisition	1 <sup>st</sup> April 2013	1 <sup>st</sup> April 2013
d.	Shareholding	Extent of investment 50%	Extent of financial
			interest 50%
e.	Analysis of reserves	1) Opening balance 1,700	1) Opening balance
		thousand pre-acquisition	1,700 thousand pre-
		2) Current year retained profit 300	acquisition
			profit 300 thousands
			post acquisition
f.	Apportionment of Profits		
	1) Pre-acquisition	1) A Ltd. – 850 thousand	1) A Ltd. – 850 thousand
	,	(investing Co. Interest)	(investing Co. Interest)
	2) Post-acquisition	2) A Ltd. – 150 thousands	2) A Ltd. – 150 thousands.
g.	Outsider's interest	Not applicable	Not applicable
h.	Goodwill/Capital	1) Cost investment 2,000	1) Cost investment 2000
	Reserve	Thousands	Thousands
		of investment	the date of investment
		-share capital 500 thousands	-share capital 500
		-capital profits 850 thouisands	thousands
		Total 1,350 thousands	-capital profits 850
		- Goodwill 650 thousands	thouisands
			Total <u>1,350</u>
			thousands
			- Goodwill 650
			thousands
١.	Inter Company		
	Iransactions	Natappliaghla	Eliminate to the extent of
	i) mer company Owings		climinate to the extent of
	2) Uprealised Profits	Eliminate to the extent of investing	
		co's interest	
J.	Reserves for CBS	*	*
k.	Carrying amount of	a) Amount invested	Nil
	Investment in CBS	i) Share of	
		Net Assets 1,350 thousands	
		ii) Goodwill <u>- 650</u> thousands	
		2000 thousands	
		b) Add: Share of Post Acquisition	
		protits 250 thousands	
		C) LESS: DIVIDEND Received 100 thousands	
		Total 2150 thousands	
1	1		

\* Reserves for CBS

			₹int	housands
Particulars	Subsidiary	Investment	Associate	Joint Venture
Sales	3,200	2,000	2,000	2,600
Expenses	(1,400)	(900)	(900)	(1,150)
Dividend	-	100	-	-
PBT	1,800	1,200	1,100	1,450
Tax	(800)	(600)	(600)	(700)
PAT	1,000	600	500	750
Share of profits from Associate	-	-	250	-
Opening Balance B/d	3,150	3,150	3,150	3,150
Dividend Paid	(300)	(300)	(300)	(300)
Share of Minority Interest	(250)	-	-	-
Balance carried forward to				
Balance Sheet	3,600	3,450	3,600	3,600

#### Draft Consolidate Profit and Loss A/c as at 31.03.2014

#### Draft Consolidated Balance Sheet As at 31.03.2014 ₹ in thousands If Subsidiary If Investment If Associate If Joint Venture Equity and Liabilities Share Capital 2.000 2.000 2.000 2,000 Reserves 3,600 3,450 3,600 3,600 Debentures 3,500 2,000 2,000 2,750 Current Liabilities 7,050 4,550 4,550 5,800 Minority Interest 1,500 Total Assets 17,650 12,000 12,150 14,150 Non-current assets Fixed Assets Tangible Assets 10,500 6,500 6,500 8,500 Intangible Assets 650 650 Investments 2,000 2,150 (Goodwill -₹ 650 thousands) Current Assets 6,500 3,500 3,500 5,000 Total 17,650 12,000 12,150 14,150

#### 3. Techno Ltd. has 2 divisions Laptops and Mobiles.

Division Laptops has been making constant profits while division Mobiles has been invariably suffering losses.

On 31st March 2014 the division-wise draft Balance Sheet was:			(₹ in crores)
	Laptop	os Mobiles	Total
Fixed assets cost	25	500	750
Depreciation	(22	5) (400)	(625)
Net Assets (A	() 2	100	125

Current assets:		200 (25)	500 (400)	700 (425)
Less. Content habilities		(20)	(400)	(420)
	(B)	175	100	275
Total (A+B)		200	200	400
Financed by:				
Loan funds		-	300	300
Capital: Equity ₹10 each		25	-	25
Surplus		175	(100)	75
		200	200	400

Division Mobiles along with its assets and liabilities was sold for ₹50 crores to Turnaround Ltd. a new company, who allotted 1 crore equity shares of ₹10 each at a premium of ₹40 per share to the members of Techno Ltd. in full settlement of the consideration, in proportion to their shareholding in the company.

Assuming that there are no other transactions, you are asked to:

- (i) Pass journal entries in the books of Techno Ltd.
- (ii) Prepare the Balance Sheet of Techno Ltd. after the entries in (i).
- (iii) Prepare the Balance Sheet of Turnaround Ltd.

[15]

#### Answer:

Journal of Techno Ltd.		(*	₹ in crores)	
			Dr. ₹	Cr. ₹
(1)	Turnaround Ltd.	Dr.	50	
	Loan Funds	Dr.	300	
	Current Liabilities	Dr.	400	
	Provision for Depreciation	Dr.	400	
	To Fixed Assets			500
	To Current Assets			500
	To Capital Reserve			150
	(Being division Mobiles along with i	ts assets and liabilities sold to		
	Turnaround Ltd.)			
	Capital Reserve	Dr.	50	
(2)	To Turnaround Ltd.			50
	(Being allotment of 1 crore equity sh	nares of ₹10 each at a premium		
	of ₹40 per share to the members of	Techno Ltd. in full settlement of		
	the consideration)			

#### Notes:

- (1) Any other alternative set of entries, with the same net effect on various accounts, may be given by the students.
- (2) Profit on sale of division may, alternatively, be credited to Profit and Loss Account instead of Capital Reserve, in accordance with the requirements of AS 5 (Revised) on Net Profit or Loss for the Period, Prior Period Items and changes in Accounting Policies.

#### Techno Ltd,

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		Note No.		
١.	Equity and liabilities			
	(1) Shareholders' funds			
	(a) Share Capital		25	
	(b) Reserves and surplus	1	175	200
	(2) Current Liabilities			25
	Total			225
Π.	Assets			
	(1) Non-current assets			
	(a) Fixed assets			25
	(2)Current assets			200
				200
	Total			225

#### Balance Sheet after reconstruction

#### Notes to Accounts

1.		(₹ in crores)
	Reserves and Surplus	75
	Add: Capital Reserve on reconstruction	100
		175

**Note to Accounts:** Consequent on transfer of Division Mobiles to newly incorporated company Turnaround Ltd., the members of the company have been allotted 1 crore equity shares of  $\overline{10}$  each at a premium of  $\overline{15}$  per share of Turnaround Ltd., in full settlement of the consideration in proportion to their shareholding in the company.

#### Balance Sheet of Turnaround Ltd.

		Note No.		
1.	Equity and liabilities			
	(1) Shareholders' funds			
	(a) Share Capital	1	10	
	(b) Reserves and surplus:			
	Securities Premium		40	50
	(2) Non-current liabilities			
	Long term borrowings			300
	(3) Current liabilities			400
	Total			750
	Assets			
Ш.	(1) Non-current assets			
	Fixed assets			
	(i) Tangible assets		100	050
	(ii) Intangible assets	2	150	250
				500
	(2) Current assets			
	Total			/50

#### Notes to Accounts

		(₹ in crores)
1.	Share Capital:	
	Issued and Paid-up capital	
	1 crore Equity shares of ₹ 10 each fully paid up	10
	(All the above shares have been issued for consideration other than	
	cash, to the members of Techno Ltd. on takeover of Division Mobiles from	
	Techno Ltd.)	
2.	Intangibles Assets:	
	Goodwill (WN 1)	150

#### **Working Note**

#### 1. Calculation of Goodwill/Capital Reserve for Turnaround Ltd.

Assets taken over	
Non Current Assets	100
Current Assets	500
Total Assets(A)	600
Loan Funds	300
Current Liabilities	400
Total Liabilities (B)	700
Net Assets C= (A-B)	(100)
Purchase Consideration (given) D	50
Goodwill (D-C)	150

# 4.(a) From the following information, calculate the value of a share if you want to buy a small lot of shares[ Market Expectation is 12%]

Year	Profit (₹)	Capital Employed (₹)	Dividend %
2011	55,00,000	3,43,75,000	12
2012	1,60,00,000	8,00,00,000	15
2013	2,20,00,000	10,00,00,000	18
2014	2,50,00,000	10,00,00,000	20
		· · · · · ·	]

#### Answer :

Buying a small lot of shares

If the purpose of valuation is to provide database to aid a decision of buying a small (noncontrolling) position of the equity of a company, dividend yield method is most appropriate. Dividend rate is rising continuously, weighted average will be more appropriate for calculation of average dividend.

Year	Rate of	Weight	Product
	dividend		
2011	12	1	12
2012	15	2	30
2013	18	3	54
2014	20	4	80
		10	176

Average dividend =  $\frac{176}{10}$  = 17.6% Value of share on the basis of dividend for buying a small lot of shares will be  $\frac{\text{Average dividendrate}}{\text{Marketexpectation rate}} \times \overline{100} = \frac{17.60}{12} \times 100 = \overline{146.67} \text{ per share.}$ 

#### (b)

Equity Share Capital	₹ 10,00,000
Reserves & Surplus	₹ 3,00,000
12% Preference Share Capital	₹ 2,00,000
10% Debenture	₹ 4,00,000
Immovable property (held as investment)	₹ 1,00,000
Profit after tax	₹ 2,00,000
Rate of tax	40%

Companies with Beta factor of 1 in similar business have market rate of return 15%. Beta factor of Anant Ltd. is 1.1. Calculate EVA assuming Risk Free Return-7%. [6]

#### Answer :

EVA = (Return on operating capital – weighted average cost of capital ) X Operating Capital =(12.44%-13.33%) X 18,00,000 = (16,020) Working Note – 1

Operating Capital	₹
Equity Share Capital	10,00,000
Reserves & Surplus	3,00,000
12% Preference Share Capital	2,00,000
10% Debenture	4,00,000
Total	19,00,000
Less: Non operating Investment	1,00,000
Operating Capital	18,00,000

#### Working Note – 2

#### Calculation of Return on operating Capital

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NOPAT = Profit after Tax	2,00,000
+ Taxes (2,00,000×40/60)	1,33,333
	3,33,333
+Interest Expense	40,000
Operating EBIT	3,73,333
(-) Economic taxes @ 40%	1,49,333
NOPAT	2,24,000

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#### Working Note - 3

Calculation of WACC		
Kd = 10% (1-0.40) X 4,00,000/19,00,000	=1.26	
Kp = 12% X 2,00,000/19,00,000	= 1.26	
Ke = 7% + 1.1(15%-7%) = 15.8% X 13/19	= 10.81	13.33%

#### Working Note - 4

Return on operating capital (%) = (₹2,24,000/₹18,00,000)×100=12.44%

#### (c) What is on Interest Rate Swaps?

[4]

#### Answer:

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.

5. (a) Future maintainable profit before interest is ₹154 lakhs, normal rate of return on long term fund is 20% and on equity fund is 25%. Long term fund is of the company is ₹640 lakhs and equity fund is ₹420 lakhs. Interest on long term fund is 18%. Find out leverage effect of goodwill. [5]

#### Answer:

Valuation of Goodwill

(₹ in lakhs)

	Particulars		Shareholders fund approach	Long term funds approach
a.	Future maintainable profits	(WN#2)	114.40	154.00
b.	Normal rate of return		25%	20%
с.	Normal capital employed		457.60	770.00
d.	Actual capital employed		420.00	640.00
e.	Goodwill		37.60	130.00
f. Leverage effect of Goodwill 92.40		40		

#### WN # 1: Ascertainment of Long Term Fund (interest thereon)

#### (₹ in lakhs)

	Particulars	Amount
a.	Total long term funds	640.00
b.	Less: Equity funds	(420.00)
с.	Long term fund (excluding Equity)	220.00
d.	Interest @ 18%	39.60

#### WN # 2: Future Maintainable Profit

#### (₹ in lakhs)

	Particulars	Shareholders fund approach	Long term funds approach
а.	Profit before interest	154.00	154.00
b.	Less: Interest	39.60	N.A.
с.	Future maintainable profits	114.40	154.00

(b) The following figures for a period were called out from the books of Asha Corporation:

Particulars	₹
Sales	24,80,000
Purchase of raw materials	10,00.000
Agent's commission	20,000
Consumable stores	25,000
Packing material	10,000
Stationery	10,000
Audit fees	4,000
Staff welfare expenses	1,58,000
Insurance	26,000
Rent rate & taxes	16,000
Managing director's remuneration	84,000
Traveling expenses	21,000
Fuel and oil	9,000
Electricity	5,000
Material used in repairs:	
<ol> <li>Materials to plant and machinery</li> </ol>	24,000
2. Materials to buildings	10,000
Advertisement	25,000
Salaries and wages	6,30,000
Postage and telegMadhus	14,000
Contribution to provident fund, etc.	60,000
Directors' sitting fees & traveling expenses	40,000
Subscription paid	2,000
Carriage	22,000
Interest on loans taken	18,000
Dividend to shareholders	30,000
Depreciation provided	55,000
Income-tax provided	1,00,000
Retained earnings	1,25,000
Opening stock : raw Material	85,000
Finished goods	2,00,000
Closing Stock: raw Material	1,08,000
Finished goods	2,40,000

From the above you are required to prepare a statement detailing the source and disposal to added value. [10]

Answer:

Statement showing the sources and disposal of Added Value

Sources:	Amount (₹)	Amount (₹)
Sales		24,80,000
Less: Agents' commission		20,000
Add change in finished stocks (W.N 1)		40,000
Gross Output		25,00,000
Less:		
(a) Raw Materials :		
Purchases	10,00,000	
Less: Change in Stock	23,000	
	9,77,000	
Other Materials:		
Consumables	25,000	
Packing Materials	10,000	
Stationary	10,000	
Fuel & oil	9,000	
Electricity	5,000	
Repair – Plant & Machinery	24,000	
Repair – Building	10,000	
Cost of brought in inputs	10,70,000	
(b) Purchased Services:		
Audit Fees	4,000	
Insurance	26,000	
Rent, Rates & Taxes	16,000	
Traveling Expenses	21,000	
Advertisement	25,000	
Postal & Telegraph	14,000	
Subscription	2,000	
Staff Welfare Expenses	1,58,000	
Carriage	22,000	
		13,58,000
Add Value		11,42,000
Disposal:		
To Employee Costs		
MD Remuneration	84,000	
Director Sitting Fees & Expenses	40,000	
Salaries & Wages	6,30,000	
Contribution to PF	60,000	8,14,000
To Government		
Tax Provided		1,00,000
Provider of Finance		
Interest on Loan		18,000
Io, Pay Share Holders		
Dividend		30,000
To Entity		
Depreciation	55,000	
Retained Earnings	1,25,000	1,80,000
Added Value		11,42,000

W.N 1 This adjustment is necessary because the cost relating to this closing stock stands included in purchase

- 6. (a) A factory started its activities on 1<sup>st</sup> April, 2014. From the following data, compute the value of closing stock on 30<sup>th</sup> April, 2014.
- Raw Materials purchased during April 40,000 kg at ₹24 (out of which Excise Duty = ₹ 4 per kg). Stock on hand as on 30<sup>th</sup> April 2,500 kg.
- Production during April 7,000 units (of which 5,000 units were sold). In addition to the production, 500 units were lying as WIP on 30<sup>th</sup> April (100% complete as to Materials and 60% complete as to conversion).
- Wages and Production Overheads ₹60
- Selling Price ₹ 220 per unit (of which Excise Duty is ₹20 per unit).

[6]

#### Answer:

Particulars	Computation	₹
1. Raw Material Valuation (net of Input Excise Duty)	2,500kg x ₹ 20 per kg	50,000
2. WIP Valuation (net of RM input duty)	(₹100 + 60% of ₹60) x 500 units	68,000
3. Finished Goods Valuation (including ED on SP)	(RM 100 + Lab & OH 60 + ED 20) = ₹180 x (7,000 units – 5,000 units)	3,60,000
Total		4,78,000

#### Computation of Cost per unit of production:

- Raw Materials: (40,000 2,500) = 37,500 kg for 7,500 units total = 5 kg x ₹ 20 (net of ED) = ₹100
- Wages and Production Overhead = ₹60 per completed unit (given)
- (b) A Ltd. acquired 5,000 Shares of S Ltd. at ₹ 48 per Share Cum-Dividend constituting 62.50% holding in the latter. Immediately after purchase, S Ltd. declared and distributed a dividend at ₹ 4 per Share, which S Ltd. credited to its Profit and Loss Account.

One year later, S Ltd. declared a Bonus of 1 fully paid Equity Share of ₹ 10 each for every 5 Shares held. Later on, S Ltd. proposed to raise funds and made a Rights Issue of 1 Share for 5 held at ₹ 36 per Share. A Ltd. exercised its right.

After some time, at its AGM, S Ltd. had decided to split its Equity Share of  $\stackrel{<}{\phantom{}^{\triangleleft}}$  10 into Two Equity Shares of  $\stackrel{<}{\phantom{}^{\triangleleft}}$  5 each. The necessary resolutions were passed and share certificates issued to all its existing shareholders.

To increase its stake in S Ltd. to 80%, A Ltd. acquired sufficient number of shares at ₹ 30 each. Ascertain the Cost of Control as on 31<sup>st</sup> December if S's share in Capital Profits (duly adjusted for purchase in lots) as on that date was ₹ 3,15,000. [9]

#### Answer :

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	A. Cost of Investment				
	Pa	rticulars	Shares	₹	
Less:	Cost of First Acquisition Pre-Acquisition Dividend	(5,000 x ₹ 48) (5,000 × ₹ 4 per Share)	5,000 N.A.	2,40,000 (20,000)	
Add:	Corrected Cost of Investme Bonus Shares	ent (1/5 × 5,000 Shares)	5,000 1,000	2,20,000	
Add:	Cost after Bonus Shares Rights Shares	(1/5 x 6,000 Shares x ₹ 36)	6,000 1,200	2,20,000 43,200	
	Cost after Rights Issue befo	re Share Split	7,200	2,63,200	
Add:	<b>Cost after share split (WN 1)</b> Acquisition to increase hold	(2 Sh. for 1 for 7,200 Sh = 7,200 x 2) ding to 80% (Note B) (4,032 x ₹ 30)	14,400 4,032	2,63,200 1,20,960	
	Balance on date of Consol	idation	18,432	3,84,160	

#### Notes:

**A. Share Split:** In case of Share Split, the Cost of Acquisition will not undergo any change. Only the number of Equity Shares and the face value will change. This is similar to adjustment for Bonus Issue. However, for Bonus Issue, the face value and paid up value of the share will be the same as the original share. In share split, the face value and paid up value will be lesser than that of the original shares.

#### B. Calculation of Number of Shares to be acquired to increase stake to 80%

	Particulars			Shares
a. b.	Shares held before acquisition % of holding			14,400 62.5%
с. d. e.	Hence, Total Number of Shares of S Ltd. 80% of above (c x 80%) Number of Shares to be acquired	(a ÷ b) (d - a)	= (14,400 ÷ 62.50%) = (23,040 × 80%) = (18,432 - 14,400)	23,040 18,432 4,032

2.	Cost	of	Control
<b>-</b> .	0051	<b>U</b> 1	00111101

2: 00		
Particular	rs	₹
Cost of Investment	(A) (from 1 above)	3,84,160
Nominal Value of Equity Capital Share in Capital Profit	(18,432 x ₹ 5 per Share)	92,160 3,15,000
Total of Above	(B)	4,07,160
Capital Reserve (if B < A)	(B-A)	23,000

#### 7.(a) K Ltd. furnishes you with the following Balance Sheet as at 31<sup>st</sup> March, 2014:

#### (₹ in lakhs)

Sources of Funds		
Share capital :		
Authorised		<u>200</u>
Issued :		
16% Redeemable Preference shares of ₹ 100 each fully paid	150	
Equity shares of ₹ 10 each fully paid	<u>50</u>	200
Reserves and surplus		
Capital Reserve	30	
Securities Premium	50	
Revenue Reserves	<u>520</u>	<u>600</u>
		<u>800</u>
Funds employed in :		
Fixed assets (Tangible) : cost	200	
Less: Provision for depreciation	<u>200</u>	nil
Investments at cost (Market value ₹ 800 lakhs)		200
Current assets	680	
Less : Current liabilities	<u>80</u>	<u>600</u>
		800

The company redeemed preference shares on 1<sup>st</sup> April 2014. It also bought back 1 lakh equity shares of  $\stackrel{?}{\stackrel{?}{\quad}}$  10 each at  $\stackrel{?}{\stackrel{?}{\quad}}$  50 share. The payments for the above were made out of the huge bank balances, which appeared as a part of Current assets.

[5+4=9]

You are asked to :

- i. Pass journal entries to record the above.
- ii. Value equity share on net asset basis.

Answer:

Part I - Journal entries in the books of K Ltd.

					(₹ in lakhs)
Par	Particulars			Debit	Credit
a.	Re	demption of Preference Shares on 1st April 2014			
	i.	Due Entry			
		16% Preference Share Capital A/c	Dr.	150	
		To Preference Shareholders A/c			150
	ii.	Payment Entry			
		Preference Shareholders A/c	Dr.	150	
		To Bank A/c			150
b.	Sh	ares bought back			
	i.	On buy back			
		Shares bought back A/c	Dr.	50	

	To Bank A/c			50
	(1 lakhs shares × ₹ 50 per share)			
ii.	On Cancellation			
	Equity Share Capital A/c (1 Lakhs × ₹ 10)	Dr.	10	
	Securities Premium A/c (1 Lakhs ×₹40)	Dr.	40	
	To Shares bought back A/c			50
iii.	Transfer to Capital Redemption Reserve			
	Revenue Reserve A/c	Dr.	160	
	To Capital Redemption Reserve A/c			160
	(Being creation of capital redemption reserve to the			
	extent of the face value of preference shares			
	redeemed and equity shares bought back)			

#### Part - III - Net Asset Value of Equity Shares

				(
Par	Particulars		Amount	Amount
a.	i.	Fixed assets	Nil	
	ii.	Investments (at market value)	800	
	iii.	Current assets(680-200)	<u>480</u>	1,280
b.	Les	ss: Current liabilities		<u>(80)</u>
	Ne	t assets available for equity share holders		1,200
c.	No	of equity shares outstanding (in lakhs)		4
d.	Va	lue per equity share of ₹ 10 each = (1,200÷4)		₹ 300

(₹ in Crores)

# (b) Kalpana Ltd. purchased an old well for \$200 million. It estimates that the well contains 500 million barrels of oil. The oil well has no salvage value. If the company extracts and sells 20,000 barrels of oil during the first year, how much depletion expense should be recognized as per IFRS 6?

#### Answer:

In the above situation we will compute the depletion rate and depletion expense as per IFRS 6

"Exploration for and Evaluation of Mineral Resources"

Depletion rate = Current period production / Total barrels of production

= 20,000 barrels / 500,000,000 barrels =0.00004

Depletion expense for the first year =Purchase price x Depletion rate = \$ 200,000,000 x 0.00004 = \$ 8000.

8. Write short notes on any three of the following:

(a) Jaggi and Lau model on valuation of group basis of Human Resources;

- (b) Forward Contract
- (c) Significance of Environmental Accounting;
- (d) Impairment of asset and its application to inventory.

#### Answer:

(a) According to Jaggi and Lau Model, proper valuation of human resources is not possible unless the contributions of individuals or individuals as a group are taken into consideration. A group usually refers to a homogenous employee 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. 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 is designed to calculate the present value of all existing employees in each rank. Such relevant present value is measured with the help of the following steps. Ascertain the number of employees in each rank.

Estimate the probability that an employee will be in his rank within the within the organisation or being terminated promoted in the next period. This probability will be estimated for a specified group for a significant time period.

Ascertaining the economic value of an employee in a specified rank during each time period.

The present of existing employees in each rank can be obtained by multiplying the above three factors and applying an appropriate discounting rate.

Jaggi and Lau simplified the process of measuring the value of human resources by considering a group of employees as a valuation base. But in the process, they ignored the exceptional qualities of some skilled employees.

#### (b) Forward Contract

A forward contract is an agreement between two parties whereby one party agrees to buy from, or sell to, the other party an asset at a future time for an agreed price (usually referred to as the 'contract price'). The parties to forward contracts may be individuals, corporates or financial institutions. At maturity, a forward contract is settled by delivery of the asset by the seller to the buyer in return for payment of the contract price. For example, a person (X) may enter into a forward contract with another person (Y) on June 15, to buy 10 kgs. of silver at the end of 90 days at a price of ₹ 8,200 per kg. At the end of the 90 days, Y will deliver 10 kgs. of silver to X against payment of ₹ 82,000. If the price of silver, at the end of the 90 days, is ₹ 8,300 per kg., X would make a profit of ₹ 1,000 and Y would lose ₹ 1,000, as X could sell silver bought at ₹ 82,000 for ₹ 83,000, whereas Y would have to buy silver for ₹ 83,000 and sell for ₹ 82,000. On the other hand, if the price of silver at the end of the 90 days is ₹ 7,800 per kg., X would lose ₹ 4,000, whereas Y would make a profit of ₹ 4,000, as X would have to sell silver bought at ₹ 82,000 for ₹ 78,000, whereas Y would buy silver for ₹ 78,000, which he would sell for X at ₹ 82,000.

(c) Environmental Accounting can be defined as a system (methodology) for measuring environmental performance and communicating the results of these measurements to users. It helps in presenting the utilization of natural resources by an enterprise, the costs incurred to use them and the income earned there from in a transparent manner. Environmental accounting, entirely a new concept, is a faithful attempt to identify the resources exhausted and costs rendered reciprocally to the enterprise by a business corporation. Thus environmental accounting stands for recording and documenting environmental

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[5x3=15]

performance to facilitate effectiveness of environmental management system with reference to compliance, safety and quality control.

It provides a data base for taking corrective steps and future action for developing organization's environmental strategy and for identifying environmentally based opportunities for gaining an edge over one's competitors. If proper environmental accounting system is established, the enterprise will be able to anticipate environmental damage and therefore can prevent it from happening.

#### (d) Impairment of asset and its application to inventory:

The objective of AS 28 "Impairment of Assets" is to prescribe the procedures that an enterprise applies to ensure that its assets are carried at not more than their recoverable amount. An asset is carried at more than its recoverable amount, if its carrying amount exceeds the amount to be recovered through use or sale of the asset. If this is the case, the asset is described as impaired and this statement requires the enterprise to recognize an impairment loss. This standard should be applied in accounting for the impairment of all assets, except the following:

i) Inventories (AS2-Valuation of Inventories);

ii) Assets arising out of a construction contracts (AS 7- Accounting for Construction Contracts);

iii) Financial assets, including investments which are included in the scope of AS 13-Accounting for Investments;

iv) Deferred tax assets (AS 22- Accounting for Taxes on income).

AS 28 does not apply to inventories, assets arising out of a construction contracts, deferred tax assets or investments because other accounting standards applicable to these assets already contain specific requirements for recognizing and measuring the impairment related to these assets.