CS-Executive New Syllabus

Time – 90 Minute

Marks- 50

Topic Name - Capital structure, Capital Budgeting, Issue of Shares, Forecasting of financial statements

ATTEMPT ALL QUESTIONS

Q.1 A Company issued 10,000 shares of Rs. 10 each at a premium of Rs. 3 per share in the following manner:

Application	Rs.4
Allotment	Rs.5 + 3
On call	Rs. 1

Subject - Corporate Accounting & Financial Management

Company received application for 13,000 shares. Company rejected & refunded the amount of application of 1,000 shares and made pro rata on remaining applications. Mr. R holder of 500 shares failed to pay any amount after application money. Company forfeited his shares after making call and subsequently re-issued 350 shares out of them @ Rs. 8 per share. Give necessary journal entries in the books of the Company.

(10 Marks)

Solution :

Journal Entries

In the books of the Company

S.	Particulars	L.E	Amount	Amount	
No.	IIQUE ACADEMY FOR CO	N	Rs.	Rs.	
1.	Bank a/c (13000 × 4) Dr.		52,000		
	To Equity share application a/c			52,000	
	(Being application money received)				

S.	Particulars	L.F.	Amount	Amount
No.			Rs.	Rs.
2.	Equity share application a/c (13000×4) Dr.		52,000	
	To Equity share capital a/c (10000×4)			40,000
	To Equity share allotment a/c			8,000
	To Bank a/c (1000 × 4)			4,000
	(Being pro rata allotment made on excess application received)			
3.	Equity share allotment a/c $(10,000 \times 8)$ Dr.		80,000	
	To Equity share capital a/c (10,000 \times 5)			50,000

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To Securities Premium reserve a/c $(10,000 \times 3)$				30,000
(Being allotment money due)				
Bank a/c (1)	Dr.		68,400	
To Equity share allotment a/c				68,400
(Being allotment money received)				
Equity share Ist call a/c $(10,000 \times 1)$	Dr.		10,000	
To Equity share capital a/c				10,000
(Being first call amount due)				
Bank a/c (9500 × 1)	Dr.		9,500	
To Equity share 1st call a/c				9,500
(Being 1st call money received)				
Equity share capital a/c (500×10)	Dr.		5,000	
Securities premium reserve a/c (500×3)			1,500	
To Equity share forfeiture a/c DEVY FOR	CO	N	IME	R 2,400
To Equity share allotment a/c				3,600
To Equity share Ist call (500×1)				500
(Being 500 shares forfeited on non-payment of allotment & call money)				
Bank a/c (350 × 8)	Dr.		2,800	
Equity share for feiture a/c (350 × 2)	Dr.		700	
To Equity share capital a/c (350×10)				3,500
(Being 350 shares reissued @ Rs. 8 per share)				
Equity share forfeiture a/c (2)	Dr.		980	
To Capital Reserve a/c				980
(Being balance transferred to Capital Reserve)				
	To Securities Premium reserve a/c (10,000 × 3) (Being allotment money due) Bank a/c (1) To Equity share allotment a/c (Being allotment money received) Equity share Ist call a/c (10,000 × 1) To Equity share capital a/c (Being first call amount due) Bank a/c (9500 × 1) To Equity share 1st call a/c (Being 1st call money received) Equity share capital a/c (500 × 10) Securities premium reserve a/c (500 × 3) To Equity share forfeiture a/c DENY FOR To Equity share allotment a/c To Equity share storfeiture a/c DENY FOR To Equity share storfeiture a/c DENY FOR To Equity share forfeiture a/c (500 × 1)) (Being 500 shares forfeited on non-payment of allotment & call money) Bank a/c (350 × 8) Equity share forfeiture a/c (350 × 10) (Being 350 shares reissued @ Rs. 8 per share) Equity share forfeiture a/c (2) To Capital Reserve a/c (Being balance transferred to Capital Reserve)	To Securities Premium reserve a/c (10,000 × 3) (Being allotment money due) Bank a/c (1) Dr. To Equity share allotment a/c (Being allotment money received) Equity share 1st call a/c (10,000 × 1) To Equity share capital a/c (Being first call amount due) Bank a/c (9500 × 1) To Equity share 1st call a/c (Being 1st call money received) Equity share capital a/c (500 × 10) Dr. To Equity share forfeiture a/c (500 × 3) To Equity share forfeiture a/c (500 × 3) To Equity share forfeiture a/c (500 × 3) To Equity share allotment a/c To Equity share allotment a/c To Equity share allotment a/c To Equity share forfeiture a/c (350 × 1) (Being 500 shares forfeited on non-payment of allotment & call money) Bank a/c (350 × 8) Dr. Equity share capital a/c (350 × 2) Dr. To Equity share reserve a/c (350 × 10) Being 350 shares reissued @ Rs. 8 per share) Equity share forfeiture a/c (2) Dr. To Capital Reserve a/c Being balance transferred to Capital Reserve)	To Securities Premium reserve a/c (10,000 × 3) (Being allotment money due) Bank a/c (1) Dr. To Equity share allotment a/c (Being allotment money received) Equity share 1st call a/c (10,000 × 1) To Equity share capital a/c (Being first call amount due) Bank a/c (9500 × 1) To Equity share 1st call a/c (Being 1st call money received) Equity share capital a/c (500 × 10) Dr. Securities premium reserve a/c (500 × 3) To Equity share forfeiture a/c DELVY FOR COV To Equity share forfeiture a/c (500 × 3) To Equity share forfeiture a/c (500 × 1) (Being 500 shares forfeiture a/c (500 × 1) (Being 500 shares forfeited on non-payment of allotment & call money) Bank a/c (350 × 8) Dr. Equity share capital a/c (350 × 2) Dr. To Equity share capital a/c (350 × 10) Being 350 shares reissued @ Rs. 8 per share) Equity share forfeiture a/c (2) Dr. To Capital Reserve a/	To Securities Premum reserve a/c (10,000 × 3) (Being allotment money due) Bank a/c (1) Dr. To Equity share allotment a/c (Being allotment money received) Equity share Ist call a/c (10,000 × 1) To Equity share capital a/c (Being first call amount due) Bank a/c (9500 × 1) To Equity share 1st call a/c (Being 1st call money received) Equity share capital a/c (Being 1st call money received) Equity share capital a/c (500 × 10) Dr. 5,000 Securities premium reserve a/c (500 × 3) To Equity share forfeiture a/c DEMMY FOR CONMER To Equity share forfeiture a/c (500 × 3) To Equity share forfeiture a/c (500 × 1) (Being 500 shares forfeiture a/c (500 × 1) (Being 500 shares forfeiture a/c (350 × 2) To Equity share forfeiture a/c (350 × 2) Dr. 700 To Equity share capital a/c (350 × 10) Pr. (Being 300 shares reissued @ Rs. 8 per share) Pr. Equity share forfeiture a/c (2) Dr. 980 To Capital Reserve a/c Being balance transferred to Capital Reserve)

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	Allotted	Applied	
1.	10,000 -	12,000	
	500 -	$\frac{12000}{10000} \ge 500 = 600$	
Applicati	on money to l	be paid = $500 \times 4 = 2000$	
Applicati	on money act	ually paid = $600 \times 4 = 2400$	
Excess an	mount = 2400	-2000 = 400	
(included	in allotment)		
			Rs.
Amount	received (10,0	00 imes 8)	80,000
Less : An	nount received	l earlier	(8,000)
Less : De	fault (500 \times 8		(4,000)
∴ Allotm	ent money re	ceived	68,000
2. No.	of shares	Forfeited amount	Rs.
5 0 0	QUE	2,400 (application and extra money paid) R	OMMERCE
350		$\frac{2400}{500}$ X 350 =	Rs. 1,680
Less : Lo	ss on reissue		(700)
Transferr	ed to Capital	Reserve	980

Attempt Either Q.2 or Q.2A

Q.2 You are the Company Secretary of DP ltd and assigned task of profitability projections of difference scenarios based on historical data provided: (Rs in Cr.)

Revenue (Sales)	200	
Variable cost (60% of Sales)	120	
Fixed Cost (others)	20	
Depreciation	25	
Taxes	10	
Cash flow from operation	50	
Net Cash flow		50

Company is forecasting that sales will be increased by 37.5% approximately keeping in the mind of Market forces whereas, the variable cost will be forecasted at 56% of sales. Company is in the anticipation of having

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curb by 25% approximately keeping in the mind of Market forces whereas, the variable cost will be forecasted at 65% of sales. Company is in the anticipation of having fixed cost of Rs. 25 cr.

It is forecasted that depreciation remains unchanged in case of any scenario and tax rate shall be applicable at 28.57% (10 Marks)

Answer :

Statement showing Profitability Projection (Rs in Cr.)						
Particulars Historical Data Optimistic Scenario Pessimistic Scena						
Sales	200	275 (200+37.5%)	150 (200-25%)			
Less: Variable cost	(120) (60% of sales)	(154) (56% of 275)	(97.5) (65% of 150)			
Contribution	80	121	52.5			
Less: Fixed Cost						
• Other	(20)	(15)	(25)			
Depreciation	(25)	(25)	(25)			
EBIT/EBT	35	81	2.5			
Less: Tax (28.57%)	(10)	(23.14)	(0.71)			
EAT	25	57.86	1.79			

RCE

So, it can be seen from the above forecasting that, in case of optimistic scenario, company may earn profit Rs. 57.86 crores (i.e. increase in profitability 131% approx) against the historical data. While, profitability will be lower projected in worst situation i.e. around Rs. 1.79 cr. (i.e., Decrease in profitability 93% approx as

OR

Q.2A Given below are the data on a capital project 'C':

Cost of the Project	Rs. 2,28,400
Useful Life	4 years
Profitability Index	1.0417
Internal Rate of Return	15%
Salvage Value	0

Calculate- (i) Annual Cash Flow, (ii) Cost of Capital, (iii) Net Present Value (NPV), (iv) Discounted Payback Period Given the following table of Discount Factors:

Discount Factor	15%	14%	13%	12%
1 Year	0.869	0.877	0.885	0.893

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2 Years	0.756	0.769	0.783	0.797	
3 Years	0.658	0.675	0.693	0.712	
4 Years	0.572	0.592	0.613	0.636	

(10 Marks)

Solution:

1. Since IRR = 15%, Discounted Cash Inflows at 15% = Initial Investment in the Project.	
So, Cost of Project = Initial Investment = CFAT p.a. \times Cum. PVF at 15% for 4 years	Rs. 80,000
Rs. 2,28,400 = CFAT p.a. × 2.855. solving, CFAT p.a. =	
2. Profitability Index = $\frac{\text{Total DCFAT}}{\text{Initial Investment}}$ = 1.0417 (given). So, Total DCFAT = Pl×Initial Investment	1.0417 × 2,28,400 = Rs. 2,37,924
DCFAT = CFAT p.a. × PVF at On substitution, Rs. 2,37,924 = Rs. 80,000× PVF at K _o .	
On solving, PVF at $K_0 = \frac{2,37,924}{80,000} = 2.974$. From the above Table, $K_0 = 13\%$ for Total PVF = 2.974	K _o = 13%
3. NPV = Total DCFAT - Initial Investment = Rs. 2,37,924 - Rs. 2,28,400	Rs. 9,524

4. Discounted Payback Period

Year	CFAT	PVF	DCFAT	Cum DCF	Ye	ear 3	3	/ F	Rs. 49	,040 f	or 12	month	S	V	¥ ►	ear 4	
		13%	- 13%	13%-													
1	80,000	0.885	70,800	70,800		•				-							
					Rs	s. 1,	88,	,880	Rs.	2,28,4	400 (Ir	nitial I	nvst)		Rs. 2	,37,920	_
2	80,000	0.783	62,640	1,33,440	Pro	Prop. Time for earning (2,28,400 -1,88,880) = Rs. 39,520											
3	80,000	0.693	55,440	1,88,880	39,5 49,0 Mo	$\frac{39,520}{49,040}$ × 12 = 9.67 Mths. Discounted Payback Period= 3 yrs, 10 Months.)							

Q.3 The Management of Z Ltd wants to raise its funds from market to meet out the financial demands of its long-term projects. The Company has various combination of proposals to raise its funds. You are given the following proposals of the Company:

1.	Proposals	% of Equity	% of Debt	% of Preference Shares	
	Р	100	-	-	
	Q	50	50	-	
	R	50	-	50	

2. Cost of Debt -10%, Cost of Preference Shares -10%

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4. Equity Shares of the Face Value of Rs. 10 each will be issued at a Premium of Rs. 10 per Share.

5. Total Investment to be raised Rs. 40,00,000.

6. Expected Earnings Before Interest and Tax Rs. 18,00,000.

From the above proposals the Management wants to take advice from you for appropriate plan after computing the following - (1) Earnings Per Share, (2) Financial Break-Even-Point, and (3) Compute the EBIT Range among the plans for indifference. Also indicate if any of the plans dominate. (10 Marks)

Solution: 1. Computation of EPS with given EBIT of Rs. 18,00,000 and 2. Financial BEP

Partic	ulars	Proposal P	Proposal Q	Proposal R
	Capital Required	Rs. 40,00,000	Rs. 40,00,000	Rs. 40,00,000
Less:	Debt Component	Nil	(50%) Rs. 20,00,000	Nil
	Preference Share Capital	Nil	Nil	(50%) Rs. 20,00,000
	Balance Equity Capital required	Rs. 40,00,000	Rs. 20,00,000	Rs. 20,00,000
	Market Price per Share, i.e. Issue Price per Share	Rs. 20	Rs. 20	Rs. 20
	Number of Equity Shares to be issued	2,00,000 Shares	1,00,000 Shares	1,00,000 Shares
	= Equity Capital Issue Price, i.e. MPS			
	EBIT (given)	Rs. 18,00,000	Rs. 18,00,000	Rs. 18,00,000
Less:	Interest (10% on Debt)	Nil	Rs. 2,00,000	Nil
	EBT	Rs. 18,00,000	Rs. 16,00,000	Rs. 18,00,000
Less:	Tax at 50%	Rs. 9,00,000	Rs. 8,00,000	Rs. 9,00,000
	EAT	Rs. 9,00,000	Rs. 8,00,000	Rs. 9,00,000
Less:	Preference Dividend (10% on PSC)	Nil	Nil	Rs. 2,00,000
	Residual Earnings	Rs. 9,00,000	Rs. 8,00,000	Rs. 7,00,000
EPS =	Residual Earnings No.of Equity Shares	Rs. 4.50	Rs. 8.00	Rs. 7.00
Financial BEP is computed by the formula - Required EBIT = Interest + $\frac{\text{Preference Dividend}}{(100\% - \text{Tax Rate})}$		Nil	(Interest only) = Rs. 2,00,000	$\frac{\text{Rs.2,00,000}}{50\%} = \text{Rs. 4,00,000}$

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Partic	ulars	Proposal P	Proposal Q	Proposal R
	EBIT	E	E	Е
Less:	Interest (10% on Debt)	Nil	Rs. 2,00,000	Nil
	EBT	E	E - 2,00,000	Е
Less:	Tax at 50%	0.5 E	0.5 E - 1,00,000	0.5 E
	EAT	0.5 E	0.5 E - 1,00,000	0.5 E
Less:	Preference Dividend (10% on PSC)	Nil	Nil	Rs. 2,00,000
Residual Earnings		0.5 E	0.5 E -1,00,000	0.5 E - 2,00,000
No. of	Equity Shares (WN 1 above)	2,00,000 Shares	1,00,000 Shares	1,00,000 Shares
EPS =	Residual Earnings No.of Equity Shares	0.5E 2,00,000 Shares	0.5E – 1,00,000 1,00,000 Shares	0.5E – 2,00,000 1,00,000 Shares

For indifference between the above alternatives, EPS should be equal. Hence, Indifference Points are as under -

For Proposal P & Q: $\frac{0.5E}{2,00,000} = \frac{0.5E - 1,00,000}{1,00,000}$. On simplification, 0.5 E = 1 E - 2,00,000. So, E = 4,00,000

For Proposal Q & R: $\frac{0.5 \text{ E} - 1,00,000}{1,00,000} = \frac{0.5 \text{ E} - 2,00,000}{1,00,000}$. Hence, there is no indifference point at all between Proposal Q & 1.00.000 1,00,000

2,0<mark>0,000</mark> $\frac{0.5E}{2,00,000}$. On simplification, IE - 4,00,000 = 0.5 E. So, E = 8,00,000 0.5 E For Proposal R & P: 1.00.000

Conclusion: EPS is maximum under Proposal Q and is hence preferable.

Note: Plan B dominates Plan C since Financial BEP of Plan B is only Rs. 2,00,000 whereas for Plan C it is Rs. 4,00,000.

Q.4 Z Limited is considering the installation of a new project costing Rs.80,00,000. Expected annual sales revenue from the project is Rs.90,00,000 and its variable costs are 60%. of sales. Expected annual fixed cost other than interest is Rs.10,00,000. Corporate tax rate is 30%. The company wants to arrange the funds through issuing 4,00,000 equity shares of Rs.10 each and 12% debentures of Rs.40,00,000. You are required to:

Calculate the Operating, Financial and Combined Leverages and Earnings per share (EPS). (i)

(ii) Determine the likely level of EBIT, if EPS is (1) Rs.4, (2) Rs.2, (3) Rs.0.

(10 Marks)

Solution: (i) Calculation of Leverages and Earnings per Share (EPS)

Income Statement	(Amount in Rs.)
Sales Revenue	90,00,000
Less: Variable Cost @ 60%	(54,00,000)
Contribution	36,00,000
Less: Fixed Costs other than Interest	(10,00,000)
Earnings before Interest and Tax (EBIT)	26,00,000

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Less: Interest (12% on Rs.40,00,000)	(4,80,000)
Earnings Before Tax (EBT)	21,20,000
Less: Tax © 30%	(6,36,000)
Earnings After Tax (EAT)	14,84,000

- 1. DOL = $\frac{\text{Contribution}}{\text{EBIT}} = \frac{\text{Rs.36,00,000}}{\text{Rs.26,00,000}} = 1.3846$
- 2. DFL = $\frac{\text{EBIT}}{\text{EBT}} = \frac{\text{Rs.26,00,000}}{\text{Rs.21,20,000}} = 12264$
- 3. $DCL = DOL \times DFL = 1.38 \times 1.23 = 1.6974$
- 4. EPS = $\frac{\text{EAT}}{\text{No.of Equity Shores}} = \frac{\text{Rs.14.84,000}}{4,00,000} = \text{Rs.3.71}$
- (ii) Calculation of likely levels of EBIT at different EPS:

 $EPS = \frac{(EBIT - I) (1 - †)}{Number of Equity Shares}$ (1) $4 = \frac{(EBIT - Rs.4,80.000) (1 - 0.3)}{4,00,000}$ EBIT - Rs.4,80,000 = $\frac{Rs.16,00,000}{0.70}$ EBIT - Rs.4,80,000 = Rs.22,85,714 EBIT = Rs.27,65,714

(2) $2 = \frac{(\text{EBIT} - \text{Rs.4,80,000})(1 - 0.3)}{4,00,000}$

EBIT - Rs.4,80,000 = Rs.8,00,000 EBIT = Rs.4,80,000 + Rs.11,42,857 = Rs.16,22,857

(3) $0 = \frac{(\text{EBIT} - \text{Rs.}4.80.000)(1 - 0.3)}{4.00.000}$

Q.5 (a) Importance of Financial Forecasting

Answer :

Financial forecasts are a crucial part of business planning, budgeting, operations, funding that help leaders and outside stakeholders make better choices. Few important points have been pointed:

- It serves as the basis for budgeting decisions.
- It gives businesses access to cohesive reports, allowing finance departments to establish business goals that are both realistic and feasible.
- It provides management valuable insights into the way the business performed in the past and the way it will compare in the future.
- It provides a barometer for those making material financial decisions.
- It facilities to build investor relations and Show investors and creditors that your corporate has well and structured plan and is prepared for any unforeseen events impacting revenues and budgets.
- It provides customizable approach based on the core set of foundational components.
- To make accurate budget and facilitates to establish realistic business goals.
- With the help of accurate financial forecasting, problem areas can easily be traced out and company with remedial action plan can reduce the financial risk.
- Many times, accurate and authenticate financial forecast reflecting higher Return on Investment and

(5 Marks)

EBIT = Rs.4,80,000

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that helps to build and enhance the investor's confidence.

Q.5 (b) A doctor is planning to buy an X-Ray machine for his hospital. He has two options. He can either purchase it by making a cash payment of `5 lakhs or `6,15,000 are to be paid in six equal annual installments. Which option do you suggest to the doctor assuming the rate of return is 12 percent? Present value of annuity of Re. 1 at 12 percent rate of discount for six years is 4.111. (5 Marks)

Answer Option I: Cash Down Payment Cash down payment = `5,00,000 Option II: Annual Instalment Basis Annual installment = `6,15,000 × 1/6 = `1,02,500 Present Value of 1 to 6 instalments @12% = `1,02,500 × 4.111 = `4,21,378Advise: The doctor should buy X-Ray machine on installment basis because the present value of cash out flows is lower than cash down payment. This means Option II is better than Option I.

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