

The WAY CA test series

CA FINAL

P2: ADVANCED FINANCIAL MANAGEMENT

15.02.2025

[SYLLABUS : Mergers, Startup]

TIME : 1 HR 45 MIN

TOTAL : 60 MARKS

SUGGESTED ANSWERS

PART A : MCQ 10 MARKS

Question : 1

2 Marks

a) Rs. 20.56/-

Question : 2

1 Mark

d) Rs. 226/-

Question : 3

1 Mark

b) Rs. 220/-

Question : 4

2 Marks

c) Rs. 50,00,000

Question : 5

2 Marks

d) Rs. 2.22/-

Question : 6

1 Mark

b) Unlike venture capitalists, angel investors focus more on the entrepreneur rather than the business's viability and typically provide capital from their own funds rather than managed investment pools.

Question : 7

1 Mark

b) A bridge leader is an external appointee who facilitates business growth and leadership transition, ensuring that young family members are adequately prepared to assume key leadership roles.

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PART B : DESCRIPTIVE ANSWERS

Question : 1

8 Marks

Inventory Turnover Ratio = COGS / Closing Stock

X Ltd.	Y Ltd.
$5 = \frac{\text{COGS}}{15,00,000}$	$4 = \frac{\text{COGS}}{5,00,000}$
COGS = ₹75,00,000	COGS = ₹20,00,000
Gross Profit Ratio = 20% means COGS is 80% of Sales, then	
Sales = $\frac{75,00,000 \times 100}{80} = ₹93,75,000$	Sales = $\frac{20,00,000 \times 100}{80} = ₹25,00,000$

Statement of Profit

	X Ltd.	Y Ltd.
Sales	93,75,000	25,00,000
Less: Operating Exp.	80,62,500	19,50,000
EBIT	13,12,500	5,50,000
Less: Interest	1,20,000	1,44,000
EBT	11,92,500	4,06,000
Less: Tax@30%	3,57,750	1,21,800
EAT	8,34,750	2,84,200

	X Ltd.	Y Ltd.
No. of Shares	1,00,000	60,000
EPS (EAT/ No. of Shares)	$8,34,750/1,00,000 = ₹8.34$	$2,84,200/60,000 = ₹4.74$
Market Price Share (Market Capitalisation/ No. Shares)	$75,00,000/ 1,00,000 = ₹75$	$90,00,000/ 60,000 = ₹150$
PE Ratio (MPS/ EPS)	$75/ 8.34 = 8.99$	$150/ 4.74 = 31.65$

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i) Swap Ratio = Target Co. / Acquirer Co.

	Acquirer Co. X Ltd.	Target Co. Y Ltd.	Weight		Swap Ratio
EPS	8.34	4.74	0.40	$4.74/8.34 \times 0.40$	0.227
MPS	75	150	0.60	$150/75 \times 0.60$	1.20
					1.427

ii) Post-Merger EPS

= $EAT_X + EAT_Y / \text{No. of Shares of Both Cos.}$

= $(834750 + 284200) / 1,00,000 + (60,000 \times 1.227)$

= ₹ 6.03

iii) Post-Merger market price assuming same PE of X Ltd.

MPS = PE × EPS

= $8.99 \times 6.03 = ₹54.21$

iv) Gain or Loss to the share holders

	Pre-Merger EPS	Post-Merger EPS
X Ltd.	₹8.34	₹6.03
Y Ltd.	₹4.74	$₹6.03 \times 1.427 = ₹8.60$

While Shareholders of X Ltd. will lose EPS of ₹2.31 (₹8.34 - ₹6.03) per share the shareholders of Y Ltd. stands to gain EPS of ₹3.86 (₹8.60 - ₹4.74) per share.

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Question : 2

8 Marks

i) Swap Ratio

Gross NPA	5:40	$5/40 \times 30\%$	0.0375
CAR	5:16	$5/16 \times 28\%$	0.0875
Market Price	12:96	$12/96 \times 32\%$	0.0400
Book Value Per Share	12:120	$12/120 \times 10\%$	0.0100
			0.1750

Thus, for every share of Weak Bank, 0.1750 share of Strong Bank shall be issued.

Calculation of Book Value Per Share

Particulars	Weak Bank(W)	Strong Bank(S)
Share Capital (₹ Lakhs)	150	500
Reserves & Surplus (₹ Lakhs)	80	5,500
	230	6,000
Less: Preliminary Expenses (₹ Lakhs)	50	--
Net Worth or Book Value (₹ Lakhs)	180	6,000
No. of Outstanding Shares (Lakhs)	15	50
Book Value Per Share (₹)	12	120

ii) No. of equity shares to be issued:

$$= (150 / 10) \times 0.1750 = 2.625 \text{ lakh shares}$$

iii) Balance Sheet after Merger

Calculation of Capital Reserve

Book Value of Shares	₹180.00 lac
Less: Value of Shares issued	₹26.25 lac
Capital Reserve	₹153.75 lac

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Balance Sheet

₹ lac		₹ lac	
Paid up Share Capital	526.25	Cash in Hand & RBI	2900.00
Reserves & Surplus	5500.00	Balance with other banks	2000.00
Capital Reserve	153.75	Investment	20100.00
Deposits	48000.00	Advances	30500.00
Other Liabilities	3390.00	Other Assets	2070.00
	57570.00		57570.00

iv) Calculation CAR & Gross NPA % of Bank 'S' after merger

$$\text{CAR / CRWAR} = \text{Total Capital} / \text{Risky Weighted Assets} = (6180 / 41100) \times 100 = 15.04\%$$

	Weak Bank	Strong Bank	Merged
CAR	5%	16%	
Total Capital	₹180 lac	₹6000 lac	₹6180 lac
Risky Weighted Assets	₹3600 lac	₹37500 lac	₹41100 lac

$$\text{GNPA Ratio} = (\text{Gross NPA} / \text{Gross Advances}) \times 100 = (2750 / 30500) \times 100 = 9.02\%$$

	Weak Bank	Strong Bank	Merged
GNPA (given)	0.40	0.05	
Gross Advances	₹3500 lacs	₹27000 lacs	₹30500 lacs
Risky Weighted Assets	₹1400 lacs	₹1350 lacs	₹2750 lacs

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Question : 3

5 Marks

i) Maximum exchange ratio acceptable to the shareholders of ABC Ltd.

Market Price of share of ABC Ltd. (₹3 × 8)	₹24
No. of Equity Shares	400 lakh
Market Capitalisation of ABC Ltd. (₹24 × 400 lakh)	₹9600 lakh
Combined Earnings (₹1200 + ₹400) lakh	₹1600 lakh
Combined Market Capitalisation (₹1600 lakh × 8)	₹12800 lakh
Market Capitalisation of ABC Ltd. (₹24 × 400 lakh)	₹9600 lakh
Balance for XYZ Ltd.	₹3200 lakh

Let D be the no. of equity shares to be issued to XYZ Ltd. then,

$$\frac{\text{₹3200 Lakh}}{\left(\frac{1600 \text{ Lakh}}{D+400}\right) \times 8} = D$$

D = 133.333 lakh Shares

Exchange Ratio = 133.333 / 200 = 0.6666:1

ii) Minimum exchange ratio acceptable to the shareholders of XYZ Ltd.

Market Price of share of XYZ Ltd.	₹14.00
No. of Equity Shares	200 lakh
Market Capitalisation of XYZ Ltd. (₹14.00 × 200 lakh)	₹2800 lakh
Combined Earnings (₹1200 + ₹400) lakh	₹1600 lakh
Combined Market Capitalisation (₹1600 lakh × 10)	₹16000 lakh
Balance for ABC Ltd.	₹13200 lakh

Let D be the no. of equity shares to be issued to XYZ Ltd. then,

$$\frac{\text{₹2800 Lakh}}{\left(\frac{1600 \text{ Lakh}}{D+400}\right) \times 10} = D$$

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D = 84.8485 lakh Shares

Exchange Ratio = $84.8485 / 200 = 0.4242:1$

Question : 4

8 Marks

i) Determination of EPS, P/E Ratio, ROE and BVPS of R Ltd. & S Ltd.

	R Ltd.	S Ltd.
EAT (₹)	5,33,000	2,49,600
N	200000	160000
EPS (EAT ÷ N)	2.665	1.56
Market Price Per Share	50	20
PE Ratio (MPS/EPS)	18.76	12.82
Equity Fund (Equity Value)	2400000	1600000
BVPS (Equity Value ÷ N)	12	10
ROE (EAT ÷ EF) or ROE (EAT ÷ EF)	0.2221 22.21%	0.156 15.60%

ii) Determination of Growth Rate of EPS of R Ltd. & S Ltd.

	R Ltd.	S Ltd.
Retention Ratio (1 – D/P Ratio)	0.80	0.70
Growth Rate (ROE × Retention Ratio) or	0.1777	0.1092
Growth Rate (ROE × Retention Ratio)	17.77%	10.92%

iii) Justifiable equity share exchange ratio

1. Market Price Based = $MPS_S / MPS_R = ₹20 / ₹50 = 0.40:1$ (lower limit)
2. Intrinsic Value Based = $₹25 / ₹50 = 0.50:1$ (max. limit)

Since, R Ltd. has higher EPS, PE, ROE and higher growth expectations the negotiated term would be expected to be closer to the lower limit, based on existing share price.

Question : 5

5 Marks

i) The price at which the shares can be repurchased

Let P be the buyback price decided by Abhishek Ltd.

Market Capitalisation after Buyback:

1.1P (Original Shares – Shares Bought back)

$$= \left[1.1P(10 \text{ Lakhs} - (30\% \text{ of } 90 \text{ Lakhs})/P) \right] = 11 \text{ Lakhs} \times P - 27 \text{ lakhs} \times 1.1$$

$$= 11 \text{ lakhs} \times P - 29.7 \text{ lakhs}$$

Market capitalization rate after buyback is 200 lakhs.

Thus, we have:

$$11 \text{ Lakhs} \times P - 29.7 \text{ lakhs} = ₹200 \text{ lakhs or}$$

$$P = ₹ 20.88$$

ii) Number of shares that can be re-purchased

$$\text{The Number of shares to be bought back:} = 27 \text{ Lakhs} / 20.88 = 1.29 \text{ Lakhs (Approx)}$$

iii) The impact of share re-purchase on the EPS

$$\text{New Equity Shares} = (10 - 1.29) \text{ lakhs} = 8.71 \text{ lakhs}$$

$$\text{EPS} = (3 \times 10 \text{ lakhs}) / 8.71 \text{ lakhs} = 30\text{L} / 8.71\text{L} = ₹3.44$$

Thus, EPS of Abhishek Ltd., increases to ₹3.44.

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Question : 6

4 Marks

A Unicorn is a privately held start-up company which has achieved a valuation US\$ 1 billion. This term was coined by venture capitalist Aileen Lee, first time in 2013. Unicorn, a mythical animal represents the statistical rarity of successful ventures.

A start-up is referred as a Unicorn if it has following features:

- i. A privately held start-up.
- ii. Valuation of start-up reaches US\$ 1 Billion.
- iii. Emphasis is on the rarity of success of such start-up.
- iv. Other common features are new ideas, disruptive innovation, consumer focus, high on technology etc.

However, it is important to note that in case the valuation of any start-up slips below US\$ 1 billion it can lose its status of 'Unicorn'. Hence a start-up may be Unicorn at one point of time and may not be at another point of time.

Question : 7

4 Marks

In context of Start-up following challenges are faced in implementing Succession Planning.

- 1) **Founder mindset might be different than the corporate mindset** – The way founder's brains are wired is different from the way that a traditional corporate manager thinks, and this puts off seasoned corporate leaders from joining even matured start-ups.
- 2) **Premature for startups to implement business succession** - Certain startups are at early growth stage and too much of processes would lead to growth slow-down and hence they are not in a current stage for implementing business succession planning.
- 3) **Founders are the face of startups** – One cannot imagine a startup without a founder who initiated the idea and executed it and in his/ her absence succession planning can become difficult.

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Question : 8

8 Marks

NPV for bond refunding

	₹
PV of annual cash flow savings (W.N. 2) (3,49,600 x PVIFA 8 %, 25) i.e. 10.675	37,31,980
Less: Initial investment (W.N. 1)	31,15,000
NPV	6,16,980

Recommendation: Refunding of bonds is recommended as NPV is positive.

Working Notes:

(i) Initial Investment:

(a) Call Premium		
Before tax $(1,150 - 1,000) \times 30,000$	45,00,000	
Less Tax @ 40%	18,00,000	
After tax cost of call premium		27,00,000
(b) Floatation Cost		4,25,000
(c) Overlapping Interest		
Before tax $(0.14 \times 2/12 \times 3 \text{ Crores})$	7,00,000	
Less tax @ 40%	2,80,000	4,20,000
(d) Tax saving on unamortized discount on old bond $(25/30 \times 9,00,000 \times 0.4)$		(3,00,000)
(e) Tax savings from unamortized floatation cost of old bonds $(25/30 \times 3,90,000 \times 0.40)$		(1,30,000)
		31,15,000

(ii) Annual cash flow savings:

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a. Old Bond

(i) Interest cost (0.14×3 crores)	42,00,000	
Less tax @ 40%	16,80,000	25,20,000
(ii) Tax savings from amortisation of discount ($9,00,000/30 \times 0.4$)		(12,000)
(iii) Tax savings from amortization of floatation cost ($3,90,000/30$)		(5,200)
Annual after tax cost payment under old Bond (A)		25,02,800

b. New Bond

(i) Interest Cost (0.12×3 crores)	36,00,000	
Less Tax @ 40%	14,40,000	21,60,000
(ii) Tax savings from amortisation of floatation cost $0.4 \times 4,25,000/25$		(6,800)
Annual after tax payment under new Bond (B)		21,53,200
Annual Cash Flow Saving (A) – (B)		3,49,600

ALL THE BEST

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