Paper 20 - Strategic Performance Management and Business Valuation

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Full Marks : 100

Time allowed: 3 hours

Section – A (50 marks)

Strategic Performance Management

Answer Question No. 1 which is compulsory and any two from the rest of this Section.

1. Choose the most appropriate answer from the four alternatives given: [2x5=10]

- (i) Who has prompted the phrases, "Zero Defects"?
 - (A) Walter A. Shewhart;
 - (B) Philip Crosby;
 - (C) Peter Drucker;
 - (D) F. W. Taylor.
- (ii) ROA = (Net Income/Revenue) × (_____/Assets) = Profit Margin × Asset Turnover (A) Liabilities;
 - (B) Revenue;
 - (C) Equity;
 - (D) None of the above.

(iii) The revenue function of a firm given by $R = (2200 - 3x) \frac{x}{2}$, the firm's marginal

revenue function will be .

- (A) 2200 3x
- (B) 1100 3x
- (C) 1100 2x
- (D) 2200 2x
- (iv) The risk which is primarily influenced by the level of financial gearing, interest cover, operating leverage, and cash flow adequacy, is called:
 - (A) Financial risk;
 - (B) Business risk;
 - (C) External risk;
 - (D) Exchange risk.
- (v) The 5 S's concepts in Quality Management are:
 - (A) SEIRI, SETOIN, SEISO, SEIKETSU, SHITSKUE
 - (B) SEIRI, SEITON, SEISO, SEIKETSU, SHITSUKE
 - (C) SEIRI, SETOIN, SEISO, SEIKESTU, SHITSUKE
 - (D) SIERI, SETOIN, SEISO, SEIKETSU, SHITSUKE.

2. (a) (i) Discuss the components of Supply Chain Management.

[5]

(ii) List the advantages of 'Customer Relationship Management'. [Mention any ten] [5]

(b) "An iron ore mining company excavates iron-ore, crushes over-sized lumps and washes a part of it for higher grade. Thus, there are three grades viz. sized ore (washed & unwashed) and fines, each serving a distinct group of customers. Company's machineries comprise mobile equipments (drills, excavators, loaders, dumpers and dozers), stationery crusher, washing plant and conveyor system connecting crusher, washing plant and

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stockyard." List the Key Performance Indicator of the Managing Director of this company. [10]

- 3.(a) (i) A manufacturer can sell "X" items (X ≥ 0) at a price of (330 X) each; the cost of producing "X" items is ₹ (X² + 10X + 12). How many items should he sell to make the maximum profit? Also determine the maximum profit.
 - (ii) The Cost Function of a particular firm is $C = (1/3)x^3 5x^2 + 75x + 10$. Find at which level the Marginal Cost attains its minimum. [4]
 - (b) Discuss the following aspects regarding Corporate Failure: [3+2+3=8]
 - (i) Technical causes;
 - (ii) Over-expansion and diversification;
 - (iii) Working Capital Problem.

4. (a) (i) What is Risk Mapping? Does it benefit the organisation? – Discuss.	[5+5=10]
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- (b) Write a note on each of the following:
 - (i) Value at Risk
 - (ii) On-Line Analytical Processing
 - (iii) Tactical-level information systems

Section - B (50 marks)

Business Valuation

Answer Question No. 5 which is compulsory and any two from the rest of this Section.

5. Choose the most appropriate answer from the four alternatives given: [2x5=10]

- (i) Estimated fair value of an asset is based on the _____ value of operating cash flows.
 - (A) current
 - (B) discounted
 - (C) future
 - (D) none of these

(ii) Economic Value Added for all years = Net Operating Profit after Taxes - WACC × _____

- (A) Capital Invested
- (B) Gross Capital Expenditure
- (C) Net sales growth
- (D) None of the above
- (iii) X Ltd. has ₹300 crores worth of common equity on its balance sheet comprising of 60 lakhs shares. The company's Market Value Added (MVA) is ₹42 crores. What is company's stock price?
 - (A) ₹570
 - (B) ₹500
 - (C) ₹42
 - (D) None of the above
 - (iv) A intends to acquire B (by merger) based on market price of the shares. The following information is available of the two companies.

[4+3+3=10]

	Α	В
No. of Equity shares	5,00,000	3,00,000
Earnings after tax (₹)	25,00,000	9,00,000
Market value per share	₹30	₹25
New EPS of A after merger?		

(A) ₹3.40

- (B) ₹5.00
- (C) ₹3.00
- (D) ₹4.53
- (v) If a company has a P/E ratio of 20 and a ROE (Return on Equity) of 0.20%, then the Market to Book Value Ratio is
 - (A) 4 times
 - (B) 4%
 - (C) cannot be calculated from the given information
 - (D) None of the above
- 6. (a) Consider a bond selling at its par value of ₹1,000, with 6 years to maturity and a 7% coupon rate (with annual interest payment), what is bond's duration? If the YTM of this bond increases to 10%, how it affects the bond's duration? and why? Why should the duration of a coupon carrying bond always be less than the time to its maturity? [10]
 - (b) Alpha India Ltd., is trying to buy Beta India Ltd., Beta India Ltd., is a small bio-technology firm that develops products that are licensed to major pharmaceutical firms. The development costs are expected to generate negative cash flows of ₹ 10 lakhs during the first year of the forecast period. Licensing fee is expected to generate positive cash flows of ₹ 5 lakhs, ₹ 10 lakhs, ₹ 15 lakhs and ₹ 20 lakhs during 2-5 years respectively. Due to the emergence of competitive products, cash flows are expected to grow annually at a modest 5% after the fifth year. The discount rate for the first five years is estimated to be 15% and then drop to 8% beyond the fifth year. Calculate the value of the firm. [10] Given: The discount rate @ 15% will be:

Year	1	2	3	4	5
Discount Rate	0.869	0.756	0.6575	0.572	0.497

7. (a) The following information is provided in relation to the acquiring firm P Ltd. and the target firm Q Ltd.

Particulars	P Ltd.	Q Ltd.
Earnings after tax (₹)	300 lakhs	60 lakhs
Number of shares outstanding	20 lakhs	10 lakhs
P /E Ratio	10	5

Required:

- (i) What is the swap ratio in terms of current market price?
- (ii) What is the EPS of P Ltd. after acquisition?
- (iii) What is the expected market price per share of P Ltd. after acquisition assuming that P / E ratio of P Ltd. remains unchanged?
- (iv) Determine the market value of the merged firm.

[8]

(b) Bibi Ltd. is planning to acquire Titi Ltd. and the following information is provided in relation to the acquisition about both the companies:

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Particulars	Bibi Ltd.	Titi Ltd.
Profit after tax (₹ in lakhs)	250	50
Number of shares outstanding (in lakhs)	20	10
P/E Ratio	16	12

Required:

- (i) What will be the swap ratio it is to be determined on the basis of market prices?
- (ii) Assuming that the swap ratio is on the basis of market price, what will be the market value of Bibi Ltd. after acquisition if the merged entity expected to have a P/E ratio of 18?
 [12]

8. (a) The following information is available of a concern; calculate E.V.A.:

Debt capital 12%	₹4,000 crores
Equity capital	₹1,000 crores
Reserve and Surplus	₹15,000 crores
Capital employed	₹20,000 crores
Risk-free rate	8%
Beta factor	1.05
Market rate of return	18%
Equity (market) risk premium	10%
Operating profit after tax	₹4,200 crores
Tax rate	30%
	[10]

(b) Veer Ltd. wants to acquire Shakti Ltd. and has offered a swap ratio of 1 : 2 (0.5 shares for every one share of Shakti Ltd.).

Following information is provided:

Particulars	Veer Ltd.	Shakti Ltd.
Profit after tax (₹)	36,00,000	7,20,000
Equity shares outstanding (Nos.)	12,00,000	3,60,000
EPS (₹)	3	2
P/E Ratio	10 times	7 times
Market price per share (₹)	30	14

Required:

- (i) The number of equity shares to be issued by Veer Ltd., for acquisition of Shakti Ltd.
- (ii) What is the EPS of Veer Ltd., after the acquisition?
- (iii) Determine the equivalent earnings per share of Shakti Ltd.
- (iv) What is the expected market price per share of Veer Ltd., after the acquisition, assuming its P/E multiple remains unchanged?
- (v) Determine the market value of the merged firm. [2x5=10]