FINAL EXAMINATION

December 2023

P-20A(SPMBV) Syllabus 2022

STRATEGIC PERFORMANCE MANAGEMENT AND BUSINESS VALUATION Time Allowed: 3 Hours

Full Marks: 100

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

All workings must from part of the answer.

Where considered necessary, suitable assumptions may be made and clearly indicated in the

Section-A

Answer to Question No. 1 which is compulsory

1. Choose the correct answer from the given alternatives:

- (i) If the proportionate change in the price is more than the proportionate change in the (A) Relatively inelastic demand.

 - (B) Relatively elastic demand.
 - (C) Perfectly inelastic demand.
 - (D) Perfectly elastic demand.
- (ii) It is assumed that M. Ltd, would realize ₹ 40 million from the liquidation of its assets. It pays ₹ 20 million to its Creditors and Preference Shareholders in full and final settlement of their claims. If the number of equity shares of M. Ltd. is 2 million, the liquidation (A) ₹1 per share
 - (B) ₹ 10 per share
 - (C) ₹12 per share
 - (D) ₹15 per share
- (iii) Given: The growth rate in the dividends is expected to be 8%. The Beta of the stock is 1.60 and the return on the market index is 13%. The required rate of return would be
 - (B) 16%
 - (C) 18%
 - (D) 20%
- (iv) Performance will be a product of _
 - (A) Efficiency and Utilization
 - (B) Utilization and Productivity
 - (C) Efficiency and Productivity
 - (D) Efficiency, Utilization and Productivity

(SPMBV)	and cash flows, the
us 2022	than the present value of the expected cash its
(v) If the divestiture value is value of the divesting firm	greater than the present value of the expected cash flows, the m will
in manage on the dive	201101-2
and on the unv	Cotton
(C) remain same on the	2 (1) (65-1
(D) None of the above	ion and at the point of equilibrium of firm e falling.
(iii) Under perfect competit	ion and at the point as
A WALL CHILD TO THE	
MC curve must b	£ Hame.
(C) MR curve must b	e falling.
Cala a abox	7e - 1/2 /0 Where 1
(vii) The demand curve for	We receive the equation: $P = 24 - 1/2\sqrt{q}$ where P & q denote r X is given by the equation: $P = 24 - 1/2\sqrt{q}$ where P & q denote spectively. Find the price point elasticity for $P = 20$.
(A) 64	
(B) 48	
(C) 72	s ₹ 7.00 lakh. If the
(D) 60	10.20 lakh with extra ordinary income of 7.00 Ltd. will be
COSt Of Cap.	Γ of ₹ 40.20 lakh with extra ordinary income of ₹ 7.00 lakh. If the 10% and the applicable tax rate is 40% the value of Rico Ltd. will be
(A) ₹ 250 lakn	
(B) ₹ 180 lakh	
(C) ₹ 150 lakh	a section .
(D) Insufficient i	nformation
(i-) A bottom-up appr	roach used in Strategy
() stentegy IMF	ole mentarion
(N) formulation	of operational plan
	of tactical Dian
(C) Totillulation	ening categorized as the
(D) reverse ma	product's failure in relation to a time traine is
(x) The probability	pping of a product's failure in relation to a time frame is categorized as the
Ullicipion	
(A) Conforma	
(B) Durability	
(C) Reliabilit	y seedbar's lane states (1) if it
(D) Aesthetic	25

(xi)	Monopolistic competition and Oligopoly are the examples of market.
	(A) perfect
	(B) imperfect
	(C) no market structure.
	(D) All of the above
(xii)	Net Income ₹ 1650; Interest Expenses ₹ 20; Tax on Income ₹ 900; Cash Sales ₹ 5000 and Credit Sales ₹ 2100, in this case what would be the DuPont Return on Equity?
	(A) 0.33
	(B) 0.23
	(C) 0.36
	(D) 0.51
(xiii)	Net operating profit before tax 1 crore, Net operating profit after tax ₹ 98 lakh, Weighted average cost of capital 11.5%, Average cost of capital 13.5% and total capital ₹ 700 lakhs, then economic value added will be
	(A) 10.50 lakhs
	(B) 16.50 lakhs
	(C) 17.50 lakhs
	(D) 18.75 lakhs
(xiv)	Market price of share ₹ 500; earnings per share ₹ 25, dividend per share ₹ 50, what would be earnings yield?
	(A) 5%
	(B) 10%
	(C) 15%
	(D) 2%
	A company with PAT of ₹ 60 Crores, Tax Rate 30% plus a cess of 3%, Return on Equity is 20%, Other Equity ₹ 225 Crores, PAT of the company is growing by 8% per year then equity share with a par value of ₹ 10 will have EPS of
	(A) ₹ 2
	(B) ₹ 8
	(C) ₹ 10
	(D) Insufficient information

Section-B: Business Valuation

Answer any five questions from Question No. 2 to Question No. 8 in Section B.

Each question carries 14 marks. 14×5=70

- (a) Briefly explain three fundamental aspects of CRM to facilitate building relationship with customer. Discuss the impact of CRM initiative on an organization, in terms of enhanced risk that it may face.
 - (b) Explain the objectives of the Management Information system. Discuss different types of reports prepared under such a system.
- 3. (a) Bajaj Ltd., a monopolist, can effectively segment the market into two sub-markets with the demand functions: $P_1 = 300 2Q_1$ and $P_2 = 200 2Q_2$. If price discrimination is allowed, what is the maximum possible profit that can be earned by the monopolist?
 - (b) Explain the interrelated components of an Enterprise Risk Management framework Advocated by Committee of Sponsoring Organization's (COSO).
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4. (a) The following financial statements have been extracted from the Annual Report 2022-23 of SURYA TEXTILES Ltd. a largest textile company, having a strong presence in over 80 countries in the world.

The company wants to keep its shareholders happy by giving them a fair rate of return. The company is using return on equity (ROE) as one of the metrics of performance evaluation for determining the return for shareholders. Due to intense competition, in recent years, its ROE is under pressure and to maintain the level of ROE, the company is to change its business Model-in that, it is varying its margin, assets utilization and leverage.

You are required to:

(i) Carry out the DuPont Analysis considering the financial parameters given below and show how the return on equity (ROE) of the company is changing due to change in its Margins, Assets utilization and Leverage over the period of four years.

(ii) Give your comments on the trend of the said parameters.

Statement of Profit & Loss for year ended March 31

(Amount in ₹ Crore)

	(Amount in ₹ Crore)			
	2020	2021	2022	2023
Total Revenue	7998	8992	9976	11804
Profit before tax	1855	1612	1990	
Profit after tax	1514	1345	200000000	2817
Dividend	225		1574	2110
Tax on dividend	37	315	225	225
Retained earning		51	36	38
retained earning	1252	979	1313	1847

_	1252	979	1313	184	17
	Equity and Liability	2020	2021	2022	2023
1	Shareholders' fund Share capital Reserve and Surplus	225 8055	225 9034	225 10347	225
2	Non-current liabilities: Loan funds	7	617	10-10-0	12194
3	Current liabilities Deferred tax	251	-	17	1352
			296	324	392
	Total	8538	10172	10913	14163
_	Assets				
1	Non-current assets: Fixed assets	3774	4369	4605	
2	Non-current Investment			4685	5276
3		371	799	1449	3642
	Investments-Current Assets	4393	5004	4779	5245
	Total	8538	10172	10913	14163

(b) Using Altman's Model, compute the value of Z from the provided data (Balance Sheet

Liabilities	7		
Share Capital @ ₹10 each	1	Assets	₹
	2,00,000	Fixed Assets	4.20.000
Reserves & Surplus	60,000		4,20,000
10% Debentures		Inventory	1,80,000
Sundry Creditors	3,00,000	Book Debts	70,000
	80,000	Loans & Advances	
Outstanding Expenses	60,000		20,000
Total		Cash at Bank	10,000
Avear	7,00,000	Total	7,00,000

Additional Information:

Market value per share ₹ 12.50

Operating Profit (20% on sales) ₹ 1,40,000

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5. (a) The following information of Achal Ltd. are given:

Current dividend = ₹ 2.50 per share

Discount rate = 10.5%

Growth rate = 2%

Based on the above information of Achal Ltd, you are required to

- (i) Calculate the present value of stock of Achal Ltd.
- (ii) Assess stock of Achal Ltd. whether it is overvalued if the stock price is ₹ 35, ROE is 9% and EPS is ₹ 2.25. Support your answer with complete workings.
- (b) Monika is trying to value Chat App, a Chat Messaging App that currently has 16 million users but does not generate any revenues. She has identified that WhatsApp was recently valued at USD 17.5 billion while having 450 million users. Considering the difference in size, Monika believes that a size discount of 95 percent should be applied while valuing Chat App. The foreign exchange rate is INR 65 per USD.
- 6. (a) You have been asked to find the value of an office building having rateable area 300000 square feet in Bandra, Mumbai based upon 'comparable properties' sold in recent years. There have been six property sales in the surrounding area. Market rent of the building is ₹ 5 per square feet.

Property	Sale Price (₹ in Crore)	Occupancy Rate (%)	Size (Square feet in lakhs)	Gross Rent (₹ in lakh)
	2.00	99	4.00	5.50
Ashra	1.80	95	4.25	4.75
Happy Home		97	4.50	5.10
Pratiksha	2.20	3000	4.00	5.05
Bandhan	2.50	96		4.00
Asha	1.50	92	3.50	3,05
Jeevan Deep	1.20	93	3.00	3,03

Required:

- (i) Estimate the value of the building based upon price per square feet considering occupancy rate of 94%. 7
- (ii) Estimate the value based on price per gross rent.

(b) The below information is given about 3 Companies:

Company-A ,00,000	Company-B	
100,000	50,000	Company.
,00,000		2.00.00
10.000	2.00.000	2,00,000
1/1/00		2,00,000
		30,000
	00,000	,00,000 1,50,000 00,000 2,00,000

Company A trades at a lower P/E Multiple than its peers Company B and Company C. The management of Company A believes that the lower P/E of the Company is not justified. The management team believes the market just doesn't understand its strategy or performance. Required:

Assuming book values are representative of market values calculate the P/E and EV/ EBIT of each Company and assess whether the management is right in their thought

7. (a) Radha Limited is intending to acquire Krishna Limited by merger and the following information is available in respect of both the companies:

Particulars	or both the companies;		
No. of equity shares Profit after tax Market Price Per Share Required:	DVD 20.00	2,00,000 INR 10,00,000	
Compute the car		INR 15	

Compute the following:

- (i) EPS of both the companies
- (ii) Exchange Ratio

(b) A Ltd. is considering the acquisition of B Ltd. with stock. Relevant financial information

To		
Particulars Present earnings Equity (No. of shares) EPS	A Ltd. ₹ 7.5 lakhs 4.0 lakhs	B Ltd. ₹ 2.5 lakhs 2.0 lakhs
P/E ratio	₹ 1.875	₹ 1.25
red:	10	5

Required:

Answer the following questions:

- (i) What is the market price of each company?
- (ii) What is the market capitalization of each company?

(iii) If the P/E of A Ltd. changes to 7.5, what is the market price of A Ltd.?

8. (a) The following information is provided relating to the acquiring company X Ltd, and the (iv) Does market value of A Ltd. change? target company Y Ltd.

The following information of target company Y Ltd.	X Ltd.	Y Ltd. 7.50 lakhs
No. of shares (F.V. ₹ 10 each) Market capitalization (in ₹)	10.00 lakhs 500.00 lakhs	750.00 lakhs
P/E ratio (times)	10 300.00 lakhs	165.00 lakhs 5.00 lakhs
Promoter's holding (No. of shares)	4.75 lakhs mpanies have deci	ded to give a fai

Board of Directors of both the companies have decided to give a fair deal to the shareholders and accordingly for swap ratio the weights are decided as 40%, 25% and 35% respectively for Earnings, Book value and Market price of share of each company:

- (i) Calculate the swap ratio and also calculate Promoter's holding percentage after Required:
- (ii) What is the EPS of X Ltd. after acquisition of Y Ltd? (iii) What is the expected market price per share and market capitalization of X Ltd. after acquisition, assuming P/E ratio of firm X Ltd. remains unchanged?
- (iv) Calculate free float market capitalization of the merged firm.

(b) XY Ltd., a retail florist, is for sale at an asking price of ₹ 62,00,000. You have been contacted for a potential buyer who has asked you to give him opinion as to whether the asking price is reasonable. The potential buyer has only limited information about XY Ltd. And potential buyer does not know that annual gross sales of XY Ltd. is about ₹82,00,000 and that last year's tax return reported an annual profit of ₹8,40,000 before tax. You have collected the following information from the financial details of several retail florists that were up for sale in the past:

retail florists that were	Price-to-sale (P/S) ratio	Price-to-ear	33	
articulars	38		3.29	
Number of firms	0.55		1.52	
Mean ratio	0,65		6.29	
Coefficient of Variation Maximum ratio	2.35 nyers in descending P/			

Table 2: Top 10 players in descending P/S order:

Maximum ratio	s in descending P/S order:	9 10
Table 2: Top 10 player	3 4 5 6 7	8 9 10
Firm 1 2 1.76	1 32 1.17 1.09 1.01 0.00	.96 2.9 2.75
(P/S) ratio	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.70 1
(P/E) Multiple 5.65 6.29	f the asking price.	

Offer your opinion on the reasonableness of the asking price.