

M.B.A. - II (CBCS Pattern) Semester-IV  
**PCB4EB4 - Security Analysis & Portfolio Management**

P. Pages : 2

Time : Three Hours



**GUG/W/24/10724**

Max. Marks : 70

- Notes :
1. Attempt **any five** questions.
  2. All questions carry equal marks.
  3. Use Present Value Factor Table.

1. Discuss various theories explaining the shape of yield curve. 14
2. Elaborate efficient frontier and investor utility with example. 14
3. Describe the components used in analysing the financial statement. 14
4. What are the various tools for fundamental analysis. 14
5. Write a short note on **any two**. 14
  - a) Equity research report.
  - b) Various types of oscillators.
  - c) Fundamental principles of Technical analysis
  - d) Multistage growth model.
6. Calculate value per share on 14
  - i) Earning yield basis and
  - ii) Dividend Basis. The market expectation is 15% Face value of the share is ₹100 each.

Year	Paid up Equity share capital (₹)	Profit (₹)	Dividend (₹)
2019	12,00,000	1,80,000	1,26,000
2020	15,00,000	3,15,000	2,20,500
2021	18,00,000	4,32,000	3,02,400
2022	21,00,000	5,67,000	3,96,900
2023	24,00,000	7,44,000	5,20,800

7. Determine Macaulay's duration of a bond which has a face value of ₹1,000 and 8% annual coupon rate and 4 years to go to maturity. The bond YTM is 10%? 14

8. The current price of stock 'Q' is ₹150. The future prices with probabilities are given below. 14

Future Price (₹) :	120	150	180	210	240
Probability :	0.1	0.2	0.4	0.2	0.1

Assuming that the company will not pay any dividend you are required to find out expected returns and risk of the stock.

9. Calculate Relative strength Index on the basis of 14 price changes for the following data. 14

Year :	1	2	3	4	5	6	7
Closing Price :	40	42	40	45	47	44	46

Year :	8	9	10	11	12	13	14	15
Closing Price :	50	50	52	49	51	55	53	58

Also draw RSI chart.

10. Mr. Shyam Narayan is offered to invest ₹27,00,000 today and in turn he is promised a return of 13% with an annual return of ₹4,97,582. For how many years will the bank pay annual returns to him? 14

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