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M.Com. II Semester Degree Examination, October - 2023 COMMERCE

DSC8 : Security Analysis and Portfolio Management

(NEP)

Time : 3 Hours	Maximum Marks : 70	
Note : Answer any five of the following questions with Question No. 1	is compulsory .	Each
question carries Fourteen marks.		

1. The rate of return on stock B and the market portfolio for a 10 year period are 14 given below :

Year	Return on Stock B (%)	Return on Market Portfolio (%)
2013	15	9
2014	16	12
2015	10	6
2016	-15	4
2017	-5	16
2018	14	11
2019	10	10
2020	15	12
2021	12	9
2022	-4	8

- (i) Calculate the beta for the Stock B.
- (ii) Establish the characteristic line for the stock B.
- (iii) What would be the return from Stock B if the market is expected to move up by 9 % in 2023 ?
- 2. "Fundamental analysis provides an analytical framework for rational investment 14 decision-making". Discuss.

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3. Calculate covariance of each pair of securities and correlation coefficient from **14** the following data.

Year	Return from Security X (%)	Return from Security Y (%)	Return from Security Z (%)
1	15	20	12
2	18	24	8
3	20	25	7
4	16	22	14
5	22	20	16

- **4.** What do you mean by revision of portfolio ? Identify reasons and formula-plans for **14** revision of portfolio.
- 5. The following is the historical performance information on the capital market and 14 a mutual fund.

Year	Mutual fund return (%)	Mutual fund beta	Return on Market index (%)	Return on Govt. Securities (%)
1	13.85	1.25	-10.00	4.76
2	28.00 1.20 21.00		4.21	
3	35.00 1.18 11.05		5.21	
4	11.25	1.20	-7.50	6.00
5	24.00	24.00 1.22 4.00		6.50
6	6.85	1.32 14.31		4.35
7	1.20	1.27	18.95	3.85
8	21.00	1.25	14.50	6.15
9	10.18	1.10	9.25	7.50
10	17.65	0.95	20.00	6.00

Calculate the following risk adjusted return measures for the mutual fund :

- (i) Reward to Variability Ratio
- (ii) Reward to Volatility Ratio

6. What are price charts ? Describe the different types of price charts used by 14 technical analyst.

Security	Estimated Return (%)	Beta	Standard Deviation (%)
А	30	2.0	50
В	25	1.5	40
С	20	1.0	30
D	11.5	0.8	25
E	10.0	0.5	20
Market index	15	1.0	18
Govt. Security	7	0	0

7. The following data are available to you as portfolio manager :

- (i) In terms of the security market line, which of the securities listed above are underpriced ?
- (ii) Assuming that a portfolio is constructed using equal proportions of the five securities listed above, calculate the expected return and risk of such a portfolio.
- **8.** Write a note on the following :

(a)	Forms of market under EMH	5
(b)	Efficient Frontier	5
(c)	Active strategy for revision of portfolio	4

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