



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 3rd Sem. MBA

Batch : 2025-27

Subject : Security Analysis & Portfolio Mgmt.

Subject Code : MBPC3005

Date : 07.09.2026

Class Test : I

Duration : 1 Hr.

Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- Define the term investment. [CO1]
 - What are non-marketable securities? Give two examples. [CO1]
 - What does a beta value of 1.5 indicate ? [CO1]
 - Differentiate between real and financial asset. [CO1]
 - Define alpha(α) in sharpe single index model. [CO2]

Section-B

2. Answer any two questions out of following. [2 x 6 = 12]
- In order to estimate the risk-return profile of 50 stock, how many parameters do you require to under a) Markowitz model b) Sharpe single Index model [CO2]
 - Differentiate between Investment and gambling. [CO1]
 - Given the following data, calculate the one-period return of two companies A and B [CO2]

	A Ltd. (Rs)	B Ltd. (Rs)
Beginning Price	20	10
Ending price	15	15
Dividend	1.50	2.00

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- What is risk ? Discuss the different types of risk. [CO1]
 - Consider a portfolio of four securities with the following characteristics [CO2]

Security	Weightage	α	β	Residual variance σ^2_{ei}
A	0.2	2.0	1.2	320
B	0.3	1.7	0.8	450
C	0.1	-0.8	1.6	270
D	0.4	1.2	1.3	180

Calculate the portfolio return and risk under the single index model, if the return from the market index is 16.4 % and standard deviation of the market is 14%.



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Semester : 3rd Sem. MBA

Batch : 2025-27

Subject : Derivatives and Risk Management

Subject Code : MBPC3006

Date : 09.09.2026

Class Test : I

Duration : 1 Hr.

Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) Define Forward Contract? [CO1]
 - b) What do you mean by additional Margin in future contract? [CO2]
 - c) Write a short note on Long Hedge. [CO2]
 - d) What is BASIS in Future Contract [CO2]
 - e) What do you mean by SPREAD in future contract? [CO2]

Section-B

2. Answer any two questions out of following [2 x 6 = 12]
- a) Explain the role of a Hedger in derivative market. Explain the concept of Short Hedge with and example. [CO2]
 - b) A Speculator predicts a price increase in the gold future market from current future price of Rs.5, 000 per 10 gram. The market lot is 100 grams. Speculator buys one lot of future gold. Assume that Margin is 15%. What amount of margin money is required to enter into the above contract? If the price of the Gold increased by 20%, what will be the profit to the speculator? [CO2]
 - c) Explain the difference between Forward and Future Contract. [CO1]

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- a) Explain different types of Margin applicable to Future Trading for risk Management. [CO2]
 - b) SkyHigh Airlines expects to purchase 2 million gallons of jet fuel in three months. They are worried about rising fuel prices. There is no futures contract for jet fuel, but there is a highly liquid heating oil futures contract. Historical analysis shows that jet fuel and heating oil prices are correlated. Value of Spot Position: 2,000,000 gallons X current jet fuel price of \$2.50/gal = \$5,000,000. Futures Contract: NYMEX Heating Oil futures contract. Each contract is for 42,000 gallons. Current Futures Price (F) = \$2.40 per gallon. Standard deviation of jet fuel price changes (σ_S) = 0.035 (3.5%), Standard deviation of heating oil futures price changes (σ_F) = 0.040 (4.0%). Correlation between the two (ρ) = 0.90. Task: Calculate the optimal number of heating oil futures contracts SkyHigh should buy to hedge. [CO2]



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Date : 08.09.2026

Class Test : I

Duration : 1 Hr.

Full Marks : 30

Section-A

- 1. Answer any four out of following questions. [4 x 2 = 8]**
- a) State any two important functions of the Indian Financial System. [CO1]
 - b) Distinguish between financial markets and financial institutions with one example of each. [CO1]
 - c) What is meant by a scheduled bank? Give one example. [CO1]
 - d) Differentiate between a commercial bank and a cooperative bank on any two bases. [CO1]
 - e) What is meant by credit creation by commercial banks? [CO1]

Section-B

- 2. Answer any two questions out of following [2 x 6= 12]**
- a) Explain the major components of the Indian Financial System with suitable examples. [CO1]
 - b) Describe the structure of the Indian banking system, highlighting the major categories of banks operating in India. [CO1]
 - c) Explain the primary functions of commercial banks, distinguishing between acceptance of deposits and advancing of loans. [CO1]

Section-C

- 3. Answer any one out of following questions. [1 x 10= 10]**
- a) Explain in detail the general utility services provided by commercial banks to their customers. Give suitable examples wherever necessary. [CO1]
- b) Caselet:
- Rohan has recently started a small business. He deposits his surplus money with a bank, occasionally requires short-term finance for his business, transfers money to suppliers, and wants a safe place to keep important documents and valuables. As his business expands, he may also require banking support for dealing with overseas suppliers.
- Based on the above case:
- a) Identify the different functions/services of a commercial bank relevant to Rohan.
- b) Explain how these banking functions/services can support the smooth operation and growth of his business. [CO1]

Registration No.



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
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Semester : 3rd Sem. MBA

Batch : 2025-27

Subject : Project Appraisal and Financing

Subject Code : MBPC3008

Date : 10.09.2026

Class Test : I

Duration : 1 Hr.

Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) Define project? [CO1]
 - b) What do you mean by public sector projects? [CO1]
 - c) Write down five attributes of a good project manager? [CO1]
 - d) What is zero based project formulation? [CO1]
 - e) How the project cost will be determined? [CO2]

Section-B

2. Answer any two questions out of following. [2 x 6 = 12]
- a) Explain the steps followed in screening of project idea? [CO1]
 - b) Outline project management objectives with suitable example? [CO1]
 - c) Briefly discuss the components of capital cost of a project. [CO2]

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- a) Discuss the characteristics of a project with suitable example. [CO1]
 - b) Explain types of projects on the basis of need with suitable example. [CO1]

All the Best