

--	--	--	--	--	--	--	--	--	--

**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET UNIVERSITY)**

M.B.A. (Third Semester) Regular Examinations, November – 2025

23MBAFN23031 – Financial Analytics

(MBA- Finance)



Time: 3 hrs

Maximum: 60 Marks

(The figures in the right hand margin indicate marks.)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer *ALL* questions

	CO #	Blooms Level
a. Evaluate a green bond issued for renewable energy projects against sustainability reporting standards.	CO1	K1
b. Define short term volatility with an example.	CO2	K2
c. Explain how to Construct a momentum graph.	CO3	K2
d. Import historical price data from BSE into Excel	CO4	K3
e. Compute covariance between returns of two sectoral indices and explain its implication for risk reduction.	CO2	K5

PART – B

(10 x 5 = 50 Marks)

Answer *all the* questions

	Marks	CO #	Blooms Level
2. a. Define financial analytics and explain its importance in strategic decision-making for modern organizations.	5	CO1	K2
b. Illustrate its application in business using two real-world examples from the banking and retail sectors.	5	CO1	K3
OR			
c. List and describe in detail the primary financial documents used in financial analytics, such as the balance sheet, income statement, and cash flow statement.	5	CO1	K2
d. Explain their purpose, key components, and role in ratio and trend analysis.	5	CO1	K4
3. a. Perform time series decomposition on monthly sales data, identifying trend, seasonal, and random components.	5	CO2	K4
b. Project the next six months' sales using trend and seasonality, and discuss key characteristics of time series in financial forecasting.	5	CO2	K5
OR			
c. Analyse the factors contributing to the success of blue-chip companies in today's market.	5	CO2	K4
d. Evaluate their sustainability and resilience in volatile economic conditions.	5	CO2	K5
4. a. Outline the procedure to adjust historical stock prices following a stock split and a merger.	5	CO3	K3
b. Apply these adjustments to a sample dataset of pre- and post-event trading days, and verify the continuity of market capitalization.	5	CO3	K4
OR			
c. Critically examine the tools of financial statement analysis such as ratio analysis, common-size statements, and comparative analysis.	5	CO3	K4
d. Evaluate their strengths and limitations in supporting managerial decision-making.	5	CO3	K5

5. a. Adani Green Energy Ltd. issues a ₹1,000 crore green bond in 2025 to fund solar parks in Rajasthan. The offer document promises annual impact reporting, but media reports later reveal 20% of proceeds used for general corporate purposes. Investors file complaints with SEBI, citing greenwashing.
1. Explain the four core components of the Green Bond Principles. 10 CO2 K2
 2. Discuss the role of “use of proceeds” and “post-issuance reporting” in maintaining credibility.
 3. Evaluate the regulatory consequences under SEBI’s 2023 Sustainable Finance Framework if misuse is proven.
- OR
- b. A Mumbai-based wealth manager recommends a 60:40 allocations between HDFC Bank and ITC for a risk-averse client. During the 2024 monsoon, both stocks fell due to weak consumer sentiment and rising NPAs. The client questions the diversification benefit promised earlier.
1. Define positive, negative, and zero correlation with financial market examples. 10 CO4 K4
 2. Analyze typical co-movement patterns between banking and FMCG sectors during economic slowdowns in India.
 3. Evaluate whether true diversification is achievable using only large-cap Indian stocks and suggest one alternative approach.
6. a. Design a multi-factor regression model using Fama-French three-factor inputs to explain excess returns of a mid-cap portfolio over 36 months, interpret the coefficients, and assess model validity using R-squared and p-values. 10 CO3 K6
- OR
- b. Construct a Value-at-Risk (VaR) model at 95% confidence level using historical simulation method on a diversified equity-bond portfolio, backtest its accuracy over a 6-month stress period, and recommend risk mitigation strategies. 10 CO4 K6

End of Paper