



BRAINWARE UNIVERSITY

Programme – MBA-2022

Course Name – Financial Analytics

Course Code - FM301

(Semester III)

Prainware University 25

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:

 (i) Identify type of data classification that involves grouping data based on predetermined categories or labels

 a) Clustering
 b) Regression
 c) Classification
 d) Association

 (ii) Name the type of risk on stock measured by Beta.
 a) Absolute return
 b) Systematic risk
- (iii) The profitability index (PI) is calculated as:
 - a) PI = Net Income / Total Assets
- b) PI = Net Present Value / Initial Investment

c) PI = Revenue - Expenses

d) PI = Discount Rate - IRR

d) Historical performance

- (iv) In the context of stock valuation, the Gordon Growth Model is primarily used for:
 - a) Valuing growth stocks

- b) Valuing dividend-paying stocks with constant growth
- c) Valuing distressed companies
- d) Valuing preferred
- (v) The fundamental analysis approach has been associated with ______.select the correct answe
 - a) Uncertainties

b) Certainties

c) Ratios

c) Total risk

- d) Balance Sheets
- (vi) Write the number of independent variables Used in Multiple linear regression for predicting outcomes.
 - a) One independent variable

b) Multiple independent variables

c) No independent variables

- d) None of the above
- (vii) Apply your knowledge to write the forecasting method used in making predictions based on the average value of past data points.
 - a) Exponential Smoothing

- b) Moving Averages
- c) Time Series Decomposition
- d) Regression Analysis

Š	(viii) Show the application of predictive analysis in financial areas to detect fraudulent transactions.						
.703		a) Simple linear regression c) Logistic regression Write the type of regression of a customer defaulting on	technique that is app	b) Time series analys d) Descriptive statisti propriate for predicti	cs		
	(x)	 a) Simple linear regression c) Logistic regression A financial analyst uses a reg data. Write the type of regre 					
	(xi)	a) Simple linear regression c) Logistic regression From your understanding sho	b Ow the categories of	Multiple linear reg Multinomial regre	ssion		
		multinomial logistic regression a) Two c) Only one Identify primary goal of Finar	' c) Three or more) It depends upon in	dependent varial	bles	
		a) Maximize shareholder wea c) Increase market share Describe the purpose of finar	lth b) Minimize employed) Reduce operationa Financial Analytics			
	(To predict future stock price) To calculate taxes owed by Show the primary purpose of	a company d) To assess a compar performance and s) To determine execu e (BI) tools.	tability	on	
	o 1 (vx)	Data storage Data collection Name software that is commonusiness context.	d) Data analysis) Data mining g and managing spre	adshee <mark>ts in a</mark>		
) Photoshop) AutoCAD) Excel) Outlook			
			Group-l	3			
			(Short Answer Type			3 x 5=1	
 Identify the key difference between logistic regression and simple linear regression? Explain the concept of R-squared (R^2) in the context of regression analysis. Give an example of applying multiple linear regression in the financial sector Compare and contrast horizontal and vertical analysis techniques, highlighting when ear more useful in financial analysis. Decide a hypothetical scenario of applying both simple linear regression and logistic regression in the financial sector for decision-making. 						(3) (3) (3) ch is (3)	
			Group-C				
			(Long Answer Type (Questions)		5 x 6=3	
7.	Desc	tribe what is the Dow Theory of i	nvestment analysis			(5)	
8.	Fva	luate advantage of using free	float market canital	isation		(5)	

- 9. Analyse the concept of free float factors.
- Brainware University 10. Critically evaluate benefits of using survival techniques (Barasah Kolkata -700125

11. Describe the concept of Du pont analysis.

- (5)
- 12. Evaluate the limitations of using only financial ratios in assessing a company's (5) financial health

OR From the following figures of income statement carry out horizontal analysis and evaluate (5) the results

	2023	2022
Sales	3850000	3432000
COGS	3250000	2864000
Gross profit	600000	568000
Selling & Adm	330300	240000
exp.		
Fixed exp.	100000	100000
Depreciation	20000	189000
EBIT	149700	209100
Interest	76000	62500
EBT	73700	146600
Taxes	29480	58640
Net income	44220	87960
Tax rate	40%	40%