

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May, 2020

Course: Financial Econometrics
Program: MBA General (Finance)

Course code: FINC 8009

Instructions:

Semester: IV
Time: 03 Hours
Max. Marks: 100

SECTION -A

(30 Marks)

This section is compulsory

		Marks	CO
1	<p>The numerical score assigned to the credit rating of a bond is best described as what type of number?</p> <p>(a) Continuous (b) Cardinal (c) Ordinal (d) Nominal</p>	5	CO 1
2	<p>Suppose that we wanted to sum the 2020 returns on ten shares to calculate the return on a portfolio over that year. What method of calculating the individual stock returns would enable us to do this?</p> <p>(a) Simple (b) Continuously compounded (c) Neither approach would allow us to do this validly (d) Either approach could be used and they would both give the same portfolio return</p>	5	CO 1
3	<p>Consider a bivariate regression model with coefficient standard errors calculated using the usual formulae. Which of the following statements is/are correct regarding the standard error estimator for the slope coefficient?</p> <p>(i) It varies positively with the square root of the residual variance (s) (ii) It varies positively with the spread of X about its mean value (iii) It varies positively with the spread of X about zero (iv) It varies positively with the sample size T</p> <p>(a) (i) only (b) (i) and (iv) only (c) (i), (ii) and (iv) only (d) (i), (ii), (iii) and (iv).</p>	5	CO 1

4	In a time series regression of the excess return of a mutual fund on a constant and the excess return on a market index, which of the following statements should be true for the fund manager to be considered to have “beaten the market” in a statistical sense? A) The estimate for α should be positive and statistically significant B) The estimate for α should be positive and statistically significantly greater than the risk-free rate of return C) The estimate for β should be positive and statistically significant D) The estimate for α should be negative and statistically significant	5	CO 1
5	Which of the following is NOT correct with regard to the p -value attached to a test statistic? (a) p -values can only be used for two-sided tests (b) It is the marginal significance level where we would be indifferent between rejecting and not rejecting the null hypothesis (c) It is the exact significance level for the test (d) Given the p -value, we can make inferences without referring to statistical tables	5	CO 1
6	What result is proved by the Gauss-Markov theorem? (a) That OLS gives unbiased coefficient estimates (b) That OLS gives minimum variance coefficient estimates (c) That OLS gives minimum variance coefficient estimates only among the class of linear unbiased estimators	5	CO 1
SECTION-B (50 Marks)			
Answer any five			
7	Give examples of various financial data and their application in Financial Econometrics.	10	CO 3
8	What do you mean by linear regression model?	10	CO 3
9	As an analyst, How do you use Financial Econometric, Explain	10	CO 2
10	How do you compare between different regression models?	10	CO 2
11	What do you mean by stationarity test?	10	CO 3
12	What different descriptive statistics used for summarizing financial time series data?	10	CO 3
SECTION-C (20 Marks)			
This section is compulsory			
13	What are the various steps of financial econometric model building? Explain.	20	CO 4