Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2020

Course: Trade Analytics
Program: MBA IB
Course code: INTB 7005
Semester: II
Time: 03 Hours
Max. Marks: 100

SECTION A

Instructions

*Answer all the questions in the answer scripts only.

	Answe	er all the	e questio	ons							2*	¢20=40	COs
Q 1	What is forecasting? Discuss the purposes of forecasting and factors involved in forecasting. Brief the views of Joel Dean on forecasting the new and established products.								the	CO1			
Q 2	US\$ M	illions) for Forecas Develop	r the past t India's o	10 years cotton exp	oort using	g Naïve, N	Moving av	verage ar	nd expon	ential smoe cotton ex	oothing m	ethods.	CO2

SECTION B

Instructions

- a. Laptops should be brought by the students.
- b. Internet connection should be disabled.
- c. Only Excel sheet, SPSS and Oracle Crystal Ball software are allowed to use on laptops.
- d. The datasheet (excel) will be provided through the pen drive for answering the next section.
- e. After the problem is solved, you should write only the equations and interpretations in answer sheets.
- f. Calculators, mobiles and other electronic devices are not allowed.
- g. After exams are over, your worked out sheets will be collected by the invigilator through pen drive.
- h. Personal pen drives are not allowed.
- i. Internet browsers should and other windows should not be opened.
- j. Excel, SPSS and Oracle results should be kept in a folder (folder names should be your Roll number only and submitted to the invigilator.

	Answer all the questions	3*20=60	
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Q 1	Analyze the impact of various macroeconomic factors on India's export to USA by using traditional and modern gravity models of trade using the SPSS software and the data. (a) Data to be used for the traditional gravity method: India's exports to USA, GDP of India, GDP of USA and the average distance between India and USA. (b) Data to be used for modern gravity method: India's exports to USA, GDP of USA, average distance between India and USA, INR vs US \$, Population of USA.	CO4
Q 2	What is Symmetric Revealed Comparative Advantage Indexes (SRCA)? Measure SRCA of merchandise exports of Iron and Steel from India and China (from 2001 to 2018) to the world by using excel and compare SRCA of both the countries.	CO4
Q 3	 (a) Forecast the nominal exchange rate of India against US \$, £, € and ¥ by using ARIMA and Multiple regression forecasting techniques in the <i>Oracle Crystal Ball</i> software. Also generate forecasted series and projected trend line. (b) Compare the historical data series and forecasted data series of the different models and identify the best model of forecasting. Generate the forecasted series and comparative picture of historical and forecasted series. 	CO4