Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

Course: BBA (AO) Semester: V

Programme: Aviation Demand Forecasting CC: BDSA 106

Time: 03 hrs. Max. Marks: 100

Instructions:

SECTION A

S. No.	Attempt all of the following, each question carry two marks.		
Q 1	Forecasting vs Prediction	2	CO 1
Q 2	Relationship between forecasting, planning and decision-making	2	CO 1
Q 3	Econometric model	2	CO 1
Q 4	Model fit	2	CO 1
Q 5	Medium term forecasts	2	CO 1
Q 6	Trend line	2	CO 1
Q 7	Seasonality	2	CO 1
Q 8	Moving Average	2	CO 1
Q 9	Cyclical variation	2	CO 1
Q 10	Delphi Method	2	CO 1
	SECTION B		
	Attempt any Four		
Q 1	What are the factors affecting aviation forecasting? Explain in details.	5	CO3
Q 2	Use this data to develop a regression model to predict cost by number of passengers. Interpretate the regression coefficient. The data is showing the costs and associated number of passengers for twelve 500-mile commercial airline flights using Boeing 737s during the same season of the year. $\sum xy = 93.78, \sum x^2 = 1897, \overline{X} = 73.5, \overline{Y} = 5.73$	5	CO2
Q 3	What is the difference between quantitative and qualitative approach of forecasting?	5	CO3

Q 4	How Jury of Executive green field airport at 1		od can be appl	ied for forecas	sting passengers for	5	CO3
Q 5	Discuss the role of for		acity and infra	structure plani	ning.	5	CO3
	,	,	SECTION Attempt any		1		
Q 1	ATMs data (in thousa quarter forecast using Year Quarter 2015 320 2016 345 2017 365	3 rd order moving 1 Quarter 2 0 185 2 200 2	g average. Quarter 3 Q 215 39	uarter 4 95 20	ates the next	10	CO3
Q 2	Fit a trend line for thi of decimals). Forecas Year 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	for 2020.	Passenger	rs (thousands) 99 98 103 107 116 136 163 190 215 248		10	соз
Q 3	Discuss the componer business.	nts of time series	with suitable	examples form	n aviation	10	CO2
Q 4	Discuss Qualitative ap	proach of dema	nd forecasting	g in aviation bu	isiness?	10	CO2
			SECTION	-D	-		
Q 1	Can amount of Freight be predicted using regression analysis? Given table represents FREIGHT (In Thousand MT) and IIP of India. Establish linear regression model and determine these followings (Results upto three places of decimals)- a) Fit Simple Linear regression model b) Determine R ² c) Predict freight amount when IIP is 350. FREIGHT (IN Thousand MT) IIP				30	CO4	

699	145
797	154
846	162
854	167
979	176
1068	189
1278	204
1397	222
1550	251
1714	290
1701	297