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Enrolment No:



UPES

End Semester Examination, December 2023

Course: Aviation Demand Forecasting

Semester: V Time: 03 hrs. **Program: BBA-AVO**

Course Code: TRAV3015P Max. Marks: 100

Instructions:

- Read each question carefully before answering.
- Make sure your answers are concise and to the point.
- Support your answers with specific examples or details from the case study where appropriate.
- Write your answers legibly.
- Section A, B, D are compulsory i.e., there will be no choice available for these sections.
- *Attempt any 3 in Section C*

SECTION A 10Qx2M=20Marks

S. No.	S. No. Statement of the Question			
Q1.	Mention one regulatory change that could significantly affect aviation demand forecasts.	2	CO1	
Q2.	Q2. In aviation, which qualitative forecasting method is exemplified by airlines seeking input from their most experienced pilots to predict the impact of changing weather patterns on flight schedules? (a) Delphi Method (b) Expert Judgment (c) Scenario Analysis (d) Focus Groups			
Q3.				
Q4.	Which of the following factors can influence the demand for air travel? (a) The price of fuel (b) The length of airport runways (c) The type of aircraft used (d) The time of day.	2	CO1	
Q5.	Which qualitative forecasting technique involves asking a group of experts to independently provide their judgments and then aggregating their responses? (a) Market research (b) Time series analysis (c) Delphi method (d) Regression analysis	2	CO1	
Q6.	Name the components of time series?	2	CO1	
Q7.	Exponential smoothing method of forecasting is (a) Qualitative method (b) Quantitative method (c) Delphi method (d) regression-based method	2	CO1	
Q8.	Which seasonal factor can significantly affect aviation transport demand? (a) Availability of Wi-Fi on flights (b) The type of aircraft used (c) Holiday and vacation seasons (d) Airport security measures.	2	CO1	
Q9.	Name two key variables that are crucial in aviation demand forecasting.	2	CO1	
Q10.	Which of the following is NOT a limitation of qualitative forecasting methods?(a) They can be time-consuming (b) They are subjective and rely on human judgment (c) They cannot be used for long-term forecasting (d) They may not provide precise numerical forecasts.	2	CO1	
	SECTION B	'		

4Qx5M= 20 Marks

Q11.	What is Demand forecasting? Why is it required in aviation industry and who requires it?							5	CO2	
Q12.	1	What are the key factors which influence the aviation demand forecasting?							5	CO2
Q13.	What is the Time Horizon in the Context of Aviation Demand Forecasting? What Factors Influence the Choice of Time Horizon for a Forecast?							5	CO2	
Q14.	What external factor ca	an significant	ly influ	ence av	iation d	emand	forecas	ts?	5	CO2
	•			CTION						
015	Б 1: : : С		3Qx10N	M=30 N	<u> </u>				10	<u> </u>
Q15.	Explain various foreca	sting method	S.						10	CO3
Q16.	Briefly discuss the Del	Briefly discuss the Delphi method of making forecast.						10	CO3	
Q17.	Explain the different types of qualitative methods with advantages and disadvantages.							10	CO3	
Q18.	Describe the uses of qu	ualitative, tim	e-series	, and ca	usal fo	recasts.			10	CO3
			SEC	CTION	- D					<u> </u>
		,	2Qx15N							
Q19.	As an aviation analyst both autoregression (A provided with the month the last six months: Use a first-order autor for month 7. Calculate the results obtained from more appropriate in this market.	AR) and move thly passenge onth (t) 1 2 3 4 5 6 egressive move a 3-month movement to the two re-	del (AR avernet)	Passer (1)) to average s and d	MA) m ands) for ngers (in 120 135 140 145 forecas forecas iscuss v	thousand the part for many which r	You honal air	r demand Compare might be	15	CO4
Q20.	Discuss how aviation aviation industry to fir illustrate their applicat OR Fit a trend line for this of decimals). Forecast Year 2009 2010 PAX 99 98 (tho usan ds)	nd solutions to ion." data using reg	o operat	tional c	halleng	es. Prov	vide exa	amples to	15	CO4