LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034



Date: 07-05-2025

M.A. DEGREE EXAMINATION – **ECONOMICS**





Max.: 100 Marks

PEC3ME01 - DATA ANALYTICS FOR ECONOMICS

Dept. No.

Tin	ne: 09:00 AM - 12:00 PM		
SECTION A – K1 (CO1)			
	Answer ALL the questions	$(5 \times 1 = 5)$	
1	True or False	,	
a)	A descriptive model identifies patterns or relationships in data.		
b)	When a few values are missing in a data set, it should be deleted in all circumstant	nces.	
c)	In Logistic regression the outcome is always between 0 and 1.		
<u>d)</u>	Random forests create a forest of decision trees.		
e)	Relational Neighbor Classifier is also known as guilt by association.		
SECTION A – K2 (CO1)			
	A ATT A	(F. 1 F)	
	Answer ALL the questions	$(5 \times 1 = 5)$	
2	Explain the following concepts in a sentence or two		
<u>a)</u>	Clustering		
<u>b)</u>	CLV Branch nodes		
c)	Neural network		
<u>d)</u>			
e)	Recency SECTION P. 1/2 (CO2)		
SECTION B – K3 (CO2)			
	Answer any THREE of the following in 100 words each.	$(3 \times 10 = 30)$	
3	Explain the role of 'Return on Investment' in measuring the effectiveness of data	mining approach.	
4	State the various types of data elements. Give examples.		
5			
	the above statement.		
6	What are Association rules? Explain the two key measures for association rule mining.		
7	7 Draw the possible hazard shapes that may arise from survival analysis and explain each case.		
SECTION C – K4 (CO3)			
	Answer any TWO of the following in 200 words each.	$(2 \times 12.5 = 25)$	
8	Explain the steps involved in KDD process.		
9	Illustrate the methods used for detecting and treating outliers.		
10	Distinguish between one-versus-one coding and one-versus-all coding with relev		
11	What is a Kite network? Give a real time example of your own and plot a Kite ne	etwork for the same.	
SECTION D – K5 (CO4)			
	Answer any ONE of the following in 500 words	$(1 \times 15 = 15)$	
12	Explain Logistic regression using relevant equations, graphs and diagrams.		
13 Elucidate the Kaplan Meier survival analysis.			
SECTION E – K6 (CO5)			
	Answer any ONE of the following in 1000 words	$(1 \times 20 = 20)$	
14 15	Answer any ONE of the following in 1000 words Give an account of various implementation issues associated with data mining. Examine the various filter measures used in variable selection.	$(1 \times 20 = 20)$	