Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

School of Computer Science and Engineering

Mid - Term Examinations - November 2024

Semester: V | **Date**: 07-11-2024

Course Code: CSE 2021 | **Time**: 02:00pm – 03:30pm

Course Name: DATA MINNG | **Max Marks**: 50

Program: B. Tech (ISE) | **Weight age**: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. 5Qx2M=10M

1	Define the Preprocessing with an example.	2 Marks	L1	CO1
2	List the reduction techniques.	2 Marks	L1	CO1
3	Explain about Data cube.	2 Marks	L1	CO1
4	Derive the relationship between covariance and correlation coefficient.	2 Marks	L1	CO2
5	Define Data Integration.	2 Marks	L1	CO2

Part B

Answer ALL Questions. Each question carries 10 marks. 4QX10M=40M

6	Explain about knowledge discovery in database process with a neat diagram.	10 Marks	L1	CO1
	or			
7	Explain functionalities of data mining in detail with suitable example.	10 Marks	L1	CO1

8	Explain major issues of Data Mining with respective to society.	10 Marks	L2	CO1
	or			
9	Explain Technologies used in data mining with detail architecture.	10 Marks	L1	CO1
10	Explain types of attributes and their properties with suitable example.	10 Marks	L2	CO2
	or			
11	Explain Data reduction , define Attribute Subset Selection on {A1, A2, A3, A4, A5, A6} given data sets**.**	10 Marks	L2	CO2
12	Apply entropy based discretization on the given set S= (4,y),(0,y),(16,n),(12,y),(16,n),(18,y),(26,n),(24,n),(28,n). If S has partitioned in to 2 intervals S1 & S2 with 2 possible split points 14 & 21. Find the Best split point.	10 Marks	L3	CO2
	or			
13	Suppose that the minimum and maximum values for the attribute income are $12,000 and $98,000, respectively. We would like to map income to the range [0.0,1.0]. By min-max normalization, a value of $73,600 for income is transformed find the normalization. i. Min-Max ii. Z-Score iii. Decimal Scaling	10 Marks	L3	CO2