

Chandigarh College of Engineering and Technology (Degree Wing), Chandigarh
Department of Computer Science and Engineering
Sessional Test -1 (March-2020)

CO17324

Subject (Code): Data Mining and Analysis (CS605C)

Semester: VIth

Name of Teacher: Dr. Ankit Gupta

Date (Session): 13.03.2020(M)

Time: 1:30 Hrs

Maximum Marks 30

Note: Attempt all questions. All questions carry equal marks.

Q.No.	Questions	CO
1.	<p>a. Suppose that the minimum and maximum values for the some attribute "income" are \$20,000 and \$95,000, respectively. We would like to map income to the range [0.0, 1.0]. Calculate the transformed value of \$68,000 by min-max normalization.</p> <p>b. Consider following data: {0,4,12,16,16,18,24,26,28,32,36,40,44,48,52,60}. Demonstrate the use of Equal frequency binning method on this data set.</p>	CO3
2.	Design a hypothetical student data base for our institute with sufficient number of attributes. Discuss how Attribute Oriented Induction can be helpful on this data base for retrieving information.	CO4
3.	<p>a. Discuss in detail - major issues of Data Mining.</p> <p>b. Examine different data cube measures?</p>	CO1
4.	<p>a. Calculate the number of cuboids in an 10-dimensional cube with 4 levels? (2)</p> <p>b. Suppose that a dataware house has following 4 dimensions {time, item, location, supplier}. Draw the cube corresponding cuboids. Mention the base and apex cuboid. (3)</p>	CO2
5.	Elaborate various OLAP operations with the help of suitable examples.	CO2
6.	<p>a. Discuss various data mining functionalities.</p> <p>b. Analyze the concept hierarchy with the help of suitable example.</p>	CO1/ 4