

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI

(End Semester Examination)

CLASS : MCA

SEMESTER :II

BRANCH : CS

SESSION: SP/2022

SUBJECT: CA441 Data Mining Techniques

TIME : 2:00 PM - 4:00 PM

FULL MARKS: 50

Date : 6th May 2022

INSTRUCTIONS :

1. The question paper contains 5 questions each of 10 marks and All questions are compulsory
2. The missing data, if any, may be assumed suitably.
3. Before attempting the question paper, be sure that you have got the correct question paper.

Q1(a)	Explain briefly about data mining concept.	(5 Marks)
Q1(b)	What do you mean by data pre-processing? Explain various steps involved in pre-processing	(5 Marks)
Q2(a)	List out the differences between operational database systems and data warehouses.	(5 Marks)
Q2(b)	Explain various OLAP operations in brief.	(5 Marks)
Q3(a)	Explain the Apriori algorithm in finding the frequent itemset.	(5 Marks)
Q3(b)	What do you mean by support and confidence? Explain with the help of example	(5 Marks)
Q4(a)	What do you mean by classification and prediction? How is classification different from prediction?	(5 Marks)
Q4(b)	Explain algorithm in constructing a decision tree.	(5 Marks)
Q5(a)	What do you mean by intra-class similarity and inter-class similarity? What are the requirements of clustering in Data Mining?	(5 Marks)
Q5(b)	Explain the k-means method for classical partitioning.	(5 Marks)

06/05/2023