

ANURAG Engineering College
(An Autonomous Institution)
III B.Tech I Semester Regular Examinations, December – 2024
DATA MINING
(INFORMATION TECHNOLOGY)

Time: 3 Hours**Max. Marks: 60****Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Define Data Warehouse.	CO1	L1	1M
2. Define Data Mining.	CO1	L1	1M
3. What are frequent item sets.	CO2	L1	1M
4. Define support of an item set.	CO2	L1	1M
5. Write the steps of the Classification process.	CO3	L2	1M
6. How prediction is different from classification.	CO3	L2	1M
7. List any 2 clustering algorithms.	CO4	L1	1M
8. What is an Outlier.	CO4	L1	1M
9. Define Web log data.	CO5	L1	1M
10. What is Time Series data.	CO5	L1	1M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Discuss Data Mining as a step in Knowledge Discovery Process (KDD).	CO1	L3	10M
OR			
B) i) How to handle missing values in Data Mining Process. ii) Discuss the major challenges in Data Mining.	CO1	L3	6M 4M
12. A) Explain Apriori Algorithm for finding frequent item sets with an example data set.	CO2	L3	10M
OR			
B) Write about Multilevel and Multidimensional association rules.	CO2	L2	10M
13. A) Write Decision Tree Induction Algorithm.	CO3	L2	10M
OR			
B) Discuss K Nearest Neighbor Classification algorithm and its characteristics.	CO3	L3	10M
14. A) Explain the Partitioning Algorithms, discuss their merits and demerits.	CO4	L3	10M
OR			
B) Explain the key issues, strengths and weaknesses of Hierarchical clustering algorithms.	CO4	L3	10M
15. A) Discuss various kinds of patterns to be mined from web/server logs in Web Usage Mining.	CO5	L3	10M
OR			
B) Discuss about the various methods used for mining Time Series Data.	CO5	L3	10M

