

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Supplementary Examinations, December-2024

**DATA WAREHOUSING AND DATA MINING
(COMPUTER SCIENCE AND ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Write the difference between star and snow flake schemas.	CO1	L2	2M
2. Define data marts and its types.	CO1	L1	3M
3. Write about mining frequent item sets using vertical data format.	CO2	L2	2M
4. What is hash based technique.	CO2	L1	3M
5. Define rule based classification? Give examples.	CO3	L2	2M
6. Define back propagation.	CO3	L1	3M
7. What is interval scaled variables.	CO4	L2	2M
8. What is STING?	CO4	L1	3M
9. What is survival analysis?	CO5	L2	2M
10. What are the three important rules to find fraudulent pattern analysis and the identification of unusual patterns?	CO5	L1	3M

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

11. A) Sketch the OLAM architecture and discuss how OLAM integrates with data mining.	CO1	L3	10M
OR			
B) Discuss various OLAP operations on multi-dimensional data.	CO1	L2	10M
12. A) Discuss frequent pattern mining.	CO2	L2	10M
OR			
B) Describe in detail i) Confidence ii) Support iii) Association rules iv) Frequent item sets v) Closed item sets.	CO2	L3	10M
13. A) Develop an algorithm for classification using Bayesian classification? Illustrate the algorithm with a relevant example.	CO3	L3	10M
OR			
B) What is decision tree? explain how classification is done using decision tree induction.	CO3	L3	10M
14. A) Discuss in detail about clustering high dimensional data.	CO4	L3	10M
OR			
B) Write short notes on i) Interval scaled variables ii) Binary variables iii) Categorical variable iv) Ordinal variable v) Rational variable	CO4	L3	10M
15. A) Discuss the data mining for financial data analysis? And retail industry.	CO5	L2	10M
OR			
B) i) What are the challenges that are emerged by scientific applications of data mining? ii) What are the areas in which data mining technology may be applied for intrusion detection?	CO5	L2	5M 5M

