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V Semester B.C.A. Degree Examination, March/April - 2023

**COMPUTER APPLICATIONS****Data Mining****(CBCS Scheme)****Time : 3 Hours****Maximum Marks :100****Instructions to Candidates:****Answer all Sections.****SECTION - A****I. Answer any TEN questions. Each question carries 2 marks.****(10×2=20)**

1. What is Data? Mention any two formats.
2. Mention the features of Data Warehouse.
3. What is schema? Mention its types.
4. Expand OLAP and OLTP.
5. What is drill down operation.
6. Define Data mining.
7. What is Metadata?
8. What is data preprocessing? Mention its stages.
9. What is Association Mining?
10. What are genetic Algorithm? What is its importance?
11. What is Data Reduction?
12. State Bayes' theorem.

**SECTION - B****II. Answer any FIVE questions. Each question carries 5 marks.****(5×5=25)**

13. What is Multidimensional Modelling? Explain with example.
14. Explain process architecture with its types.

**[P.T.O.]**



15. Write a brief note on:
  - a) Data mart
  - b) Query facility
16. Explain ROLAP architecture.
17. Write a note on
  - a) Security
  - b) Backup
18. Explain the architecture of Data Mining.
19. Compare and contrast between classification and prediction.
20. Explain the Decision tree classifier with an example.

### SECTION - C

**III. Answer any THREE questions. Each question carries 15 marks. (3×15=45)**

21. a) Compare and contrast Database and Data warehouse. (7)  
b) Explain the different OLAP functions and tools. (8)
22. a) Write the advantages and disadvantages of ROLAP. (7)  
b) Explain 3-Tier Data warehouse architecture. (8)
23. a) Explain Data Cleaning in Detail. (7)  
b) What is Data Reduction? Discuss its techniques. (8)
24. a) What is Association rule? Discuss on Relational Database. (8)  
b) Explain k-Nearest Neighbour classifier techniques. (7)
25. a) Explain Cluster Analysis. (8)  
b) Briefly explain the back propagation Algorithm. (7)

### SECTION - D

**IV. Answer any ONE question. Each question carries 10 marks. (1×10=10)**

26. Explain different types of Data in cluster analysis.
  27. Explain different Schemas used for data warehouse.
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