

(Pages : 3)

J – 3025

Reg. No. :

Name :

Fourth Semester B.C.A. Degree Examination, June 2020

Career Related FDP Under CBCSS

Group 2(b) – Computer Applications

Core Course – CP 1444

DATA MINING AND WAREHOUSING

(2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

(Very Short Answer Type)

(One word to maximum of one sentence, Answer all questions)

1. Define Data mining.
2. What is OLAP?
3. Define clustering.
4. What is classification?
5. What is decision tree?
6. Define prediction.
7. What is a data cube?
8. Define star schema.

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9. What are outliers?
10. What is meant by pattern?

(10 × 1 = 10 Marks)

SECTION – B

(Short Answer Type)

(Not to exceed one paragraph, answer any eight questions each question carries 2 marks)

11. List the data mining functionalities.
12. What are the applications of data mining?
13. Explain the various schemas of a data warehouse.
14. Differentiate text mining and web mining.
15. Explain parametric and non-parametric methods of data reduction.
16. What are the features of data warehouse?
17. How to classify frequent pattern mining?
18. What is an association rule?
19. Explain the concept of integration of data mining system.
20. What are the requirements of clustering techniques in data mining?
21. What is concept hierarchy explain with an example?
22. Explain the concept of apriori algorithm.

(8 × 2 = 16 Marks)

SECTION – C

(Short Essay)

(Not to exceed **120** words, answer any **six** questions each question carries **4** marks)

23. Explain the different sources of information for data in data mining.
24. What is the difference between operational database and data ware house?
25. Explain major tasks in data pre-processing.
26. What is the difference between data warehouse and data mart?
27. What are multidimensional data models? Give an example.
28. What are the major issues faced in data mining?
29. What are the issues in classification and prediction?
30. Explain different hierarchical methods in cluster analysis.
31. Explain data mining techniques.

(6 × 4 = 24 Marks)

SECTION – D

(Long Essay)

(Answer any **two** questions each question carries **15** marks)

32. Explain with diagram, the various steps involved in KDD process.
33. Explain three-tier data warehouse architecture and its components.
34. Explain the OLAP operation in multidimensional data model with an example.
35. What is Bayesian Classifiers? With an example describe how to predict a class label using naïve Bayesian classification.

(2 × 15 = 30 Marks)