QP CODE: 20100407

Reg No   :   ....

Name   :   ....

BSc DEGREE (CBCS) EXAMINATION, MARCH 2020

Sixth Semester

Choice Based Core Course - CS6CBT02 - DATA MINING

Bachelor of Computer Application,B.Sc Information Technology Model III,B.Sc Computer Applications Model III Triple Main

2017 Admission Onwards

64E4E8B6

Time: 3 Hours   Marks: 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What do you mean by a transactional database?

2. What is a concept hierarchy? Give an example.

3. What is background knowledge? Give an example.

4. What is a fact table?

5. What is apriori property?

6. What are inter-dimensional association rules? Give an example.

7. Mention any 4 methods for classification.

8. What do you mean by coverage of a rule?

9. What do you mean by constrained based clustering?

10. What is a dendrogram?

11. What is spatial trend analysis?

12. Name two categorization of text retrieval methods.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain data discretization and concept hierarchy generation.

14. Compare and contrast ROLAP and MOLAP servers.

15. Explain bitmap indexing of OLAP data.

16. Explain how to calculate information gain with an example.

17. Explain Bayes' Theorem used in Bayesian classification.

18. Differentiate the concept of CLARA and CLARANS.

19. Explain the concept of direct and indirect density reachability.

20. Explain multidimensional analysis of multimedia data.

21. Explain Web structure mining.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain why the data need to be preprocessed before mining.

23. Explain various schema involved in conceptual modelling of a data warehouse.

24. Explain KNN algorithm and its advantages and disadvantages.

25. Explain the requirements for clustering.

(2×15=30)