

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.

 $(10 \times 2 = 20)$

Part B

Answer any six questions.

Each question carries 5 marks.

13. Explain data discretization and concept hierarchy generation.



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- 14. Compare and contrast ROLAP and MOLAP servers.
- 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.

 $(6 \times 5 = 30)$

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.

 $(2 \times 15 = 30)$

