B.Sc / BCA DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

CHOICE BASED CORE COURSE - CS6CBT02 - DATA MINING

Common for B.Sc Information Technology Model III, Bachelor of Computer Applications & B.Sc Computer Applications Model III Triple Main

2017 Admission Onwards

0F635CE6

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What do you mean by data mining?

2. What do you mean by interestingness?

3. Mention the 4 categories of data preprocessing.

4. What is technical metadata in a data warehouse?

5. What do you mean by scalability of a classifier?

6. What is the objective of SVM?

7. What is lazy learning? Give an example.

8. What is regression?

9. What is a continuous ordinal variable? Give example.

10. What do you mean by partitioning methods of clustering?

11. What do you mean by feature descriptor?

12. What is text mining?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Explain tight coupling and semi-tight coupling in data mining systems.

14. Explain the features of a data warehouse.

15. Compare and contrast ROLAP and MOLAP servers.

16. Explain the concept of uniform support and reduced support in multi-level association rules.

17. Explain issues in classification and prediction.

18. Differentiate the concept of CLARA and CLARANS.

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

20. Explain spatial association rules.

21. Explain the challenges in knowledge discovery in WWW.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain data transformation and data reduction in detail.

23. Explain with diagrams, various OLAP operations.

24. Explain with an example, how to perform correlation using lift.

25. Explain hierarchical method of clustering.

(2×15=30)