23P339 (Pages: 2) Name: .....

Reg.No: .....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - PG)

(Regular/Suppllementary/Improvement)

CC19P CSS3 E02F - DATA WAREHOUSING AND DATA MINING

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours Maximum : 30 Weightage

Part-A

Answer any ***four*** questions. Each question carries 2 weightage.

1. Describe the relationship between fact tables and dimension tables in a star schema.
2. Explain Association rule mining with example.
3. Is back-propagation algorithm supervised or unsupervised.
4. Describe types of data in cluster analysis.
5. Analyze how are outliers detected? Explain outlier analysis.
6. What are the techniques of spatial data mining?
7. Differentiate between data mining and data warehousing.

(4 × 2 = 8 Weightage)

Part-B

Answer any ***four*** questions. Each question carries 3 weightage.

8. Explain multi dimensional data model with neat diagram.
9. Explain the OLAP operation in multidimensional data model with an example.
10. Explain clearly Association mining.
11. Compare the effectiveness of SVM with linear and non-linear kernels in handling different types of datasets. What factors influence their performance?
12. Analyze the computational efficiency of partitioning methods in clustering large datasets.
13. Explain the Agglomerative Hierarchical Clustering algorithm with the help of an example.
14. Evaluate the proces of mining the world Wide Web.

(4 × 3 = 12 Weightage)

Part-C

Answer any ***two*** questions. Each question carries 5 weightage.

15. Describe Tree pruning methods.

16. Explain in detail about data reduction.

17. What is the difference between classification and regression in data mining?

18. How to measure the accuracy of classifiers?

(2 × 5 = 10 Weightage)

****