



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025
Semester-II

Class: I PG
Major: Computer Applications

Time: 2 hours
Max.Marks:60

23MCAC12. Data Mining and Warehousing

Course Outcomes

1. Apply the various steps of the KDD process and apply the relevant preprocessing techniques in large datasets.
2. Delineate the processes involved in the construction of a data warehouse
3. Apply data mining tools to demonstrate association, classification and clustering using different algorithms
4. Make use of appropriate business intelligence tools and provide solutions.
5. Relate and apply the various DM functionalities to specific areas like financial data, biological data, WWW .

Part A

6 x 1 = 6 marks

Choose the correct answer

1. The subject of a data warehouse is represented by CO1K6
a. concept hierarchy b. measure c. fact table d. Knowledge base
2. The term ----- is a department subset of a data CO1K2
a. virtual warehouse b. enterprise warehouse c. data mart d. data base
3. In the following indexing method, comparison operations are reduced to bit arithmetic CO3K3
a. bitmap b. join c. array d. none of the above
4. Smoothing is a technique to CO1K1
a. Reduce data b. remove noise c. aggregate data d. b and c
5. Interestingness measures for association rule mining are CO3 K5
a. support b. confidence c. threshold d. a and b
6. Identify the supervised learning technique CO3K1
a. Decision tree b. K Means c. Naive Bayesian d. a and c

Part B

3x 6 = 18marks

Answer any two

Answer should not exceed 400 words or two pages

- 7.a. Distinguish between OLTP and OLAP transactions with examples? CO2K2
Or
- 7.b. Describe with an example any two OLAP operations. CO2K2
- 8.a . Explain the downward closure property with reference to frequent itemsets. CO3K3
or
- 8.b. What is constraint based association rule mining? Give an example. CO3K3
- 9.a Explain any two data transformation techniques . CO2K1
Or
- 9.b. Describe any one normalization technique with an example. CO2K1

