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)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test 1 –August 2025
SEMESTER-V

Class:III UG **Time :2 hours**
Major:Computer Applications **Max. Marks:60**

23BCADE3 Data Mining and Warehousing

Course Outcomes:
CO1: Understand the basic concepts and the functionality of data mining component.
CO2: Apprehend the concepts of Data mining system architectures.
CO3: Analyse the principles of association rules
CO4: Analyse the analytical idea on Classification and prediction methods.
CO5: Apprehend on the concepts of data warehousing.

Part A **6 x 1 = 6**
Choose the correct answer

1. Data mining is _____. CO1K1
a) Deleting unnecessary data b) Sorting data alphabetically
c) Storing data securely d) Extracting useful patterns or information from large datasets

2. Which of the following is not true about data reduction? CO1K2
a) It involves dimensionality reduction
b) It involves numerosity reduction
c) Reduced data strives to gives same analytical results as the original data
d) Reduced data gives strives to give less accurate analytical results the original data

3. The types of data which cannot be used for mining is _____. CO2K2
a) Database data b) Data warehouse data
c) File System data d) Transactional data

4. The main goal of data generalization in data mining is _____. CO2K3
a) To identify specific individual data points.
b) To summarize data by replacing low-level details with higher-level concepts.
c) To find anomalies and outliers in the data.
d) To predict future values based on past data.

5. Association rule mining is to _____. CO3K1
(a) predict future trends
(b) identify relationships between items in a dataset
(c) classify data into different categories
(d) cluster similar items together

6. In the context of association rule mining, what does "support" refer to? CO3K2
(a) The number of transactions containing a specific item set.
(b) The probability of the consequent (right-hand side) of a rule.
(c) The strength of the association between two items.
(d) The percentage of transactions that satisfy both the antecedent and consequent.

Part B **3 x 6 = 18**
Answer ALL Questions
Answer should not exceed 400 words

7.a. Write on the functionalities of data mining. CO1K2
Or
7.b. Discuss classification of data mining. CO1K2

8.a. Explain on mining class comparison. CO2K1
Or
8.b. Write on statistical measures in data mining. CO2K2

9.a. Discuss basic concepts of association rule mining. CO3K2

Or

9.b. Explain Apriori algorithm with an example. CO3K3

Part C **3 x 12 =36**

Answer ALL Questions

Answer should not exceed 800 words

10.a. Explain on data pre-processing-data cleaning, data Integration and transformation. CO1K2

Or

10.b. Write on data reduction, data discretization and concept hierarchy generation. CO1K3

11.a. Write on data mining primitives, data mining query language and architecture of data mining systems. CO2K1

Or

11.b. Discuss on concept description, data generalization and summarization. CO2K1

12.a. Write on single dimensional Boolean association rules from transaction databases. CO3K2

Or

12.b. Discuss multilevel association rules from transaction databases. CO3K2

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