S.No. : 176

No. of Printed Pages : 04

BCACSN 14202/
BCADSN 14203

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 25822 Roll No. 1 2 3 0 2 6 4 0 2 8

BCA Examination, 2024-25

(Even Semester)

DATA WAREHOUSING AND DATA MINING

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : 8×1=8

   (a) What is KDD?

   (b) Name two key components of a data warehouse.

   (c) What is data cleaning?

   (d) What is fact table?

   (e) What is a concept hierarchy in data mining?

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(f) What is pruning?

(g) What is privacy-preserving data mining?

(h) Name one ethical concern in data mining.

SECTION – B

2. Attempt any two parts of the following : 2×6=12

(a) Explain the steps in the knowledge discovery process with the help of a diagram.

(b) Describe different data cleaning techniques.

(c) Describe Bayesian classification and its applications.

(d) Define clustering and explain its importance in data mining.

SECTION – C

Note :– Attempt all questions. Attempt any two parts from each questions. 8×5=40

3. (a) Explain the elements of a multi-dimensional data model.

(b) Describe the 3-tier data warehouse architecture with a diagram.

(c) Describe the bus architecture of data warehouse with a diagram.

4. (a) Explain the steps of the apriori algorithm with an example.

(b) What is a data cube? What are the typical operation performed on a data cube?

(c) What is OLAP? Compare different OLAP architectures.

5. (a) Explain the general approach to solving classification problems.

(b) Discuss various attribute selection measures in decision tree induction.

(c) Explain different methods for evaluating classification models.

6. (a) Describe the ethical considerations of data mining.

(b) Describe K-means clustering algorithm with an example.

(c) Explain the concept of outlier analysis in data mining.

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