

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-5)
DATA WAREHOUSE AND MINING

Subject Code : UGCA-1931

M.Code : 90314

Date of Examination : 28-11-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) List characteristics of data warehouse.
- b) Define data mart.
- c) List few types of metadata.
- d) What is ETL in context to data warehouse?
- e) How missing values are handled using data preprocessing?
- f) What is fact table in star schema?
- g) What is formula of calculating confidence?
- h) What is difference between precision and recall?
- i) What are advantages of interactive data visualization?
- j) List few real-world applications of clustering algorithms.

SECTION-B

2. Discuss the differences between OLAP and OLTP. Provide real-world examples to illustrate these differences.
3. What is data preprocessing? Explain different approaches for data normalization.
4. What is ARM? Explain Apriori algorithm, and how is it used in data mining?
5. What is supervised learning in context to classification? Explain the concept of decision trees used for classification processes.
6. Define clustering and its role in unsupervised learning. Explain k-means clustering algorithm with the help of example.
7. How Datawarehouse and Mining has become an important process in organizations for better storage and decision making in business intelligence.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

BCA (Sem.-5)

DATA WAREHOUSING AND MINING

Subject Code : BSBC-501

M.Code : 70628

Date of Examination : 12-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. SECTION-B contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

SECTION-A

1. Explain briefly :

- a) Define Data Warehousing.
- b) What is Data Preprocessing?
- c) Give overview of Artificial Intelligence.
- d) What is star schema?
- e) What are data cubes?
- f) How does decision tree work?
- g) Define correlation analysis?
- h) What is Indexing?
- i) What is Data Visualization?
- j) Define Bootstrap.

SECTION-B

2. Write the difference between OLAP and OLTP.
3. Discuss the steps of Data summarization and Data cleaning.
4. Explain the three-tier architecture of data warehouse.
5. What is association rule mining? Explain Apriori algorithm in data mining.
6. Give the introduction of prediction techniques. Why clustering is important in Data Mining?
7. What are different types of Data Mining Techniques? Explain any one in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.