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Total No. of Pages : 02

Total No. of Questions : 07

**B.Sc. (Data Analytic) (Sem.-3)**  
**DATA WAREHOUSE AND MINING**  
Subject Code : UGCA-1931  
M.Code : 92553  
Date of Examination : 14-12-22

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) What are the different types of data that can be mined?
- b) What is Cluster analysis?
- c) What is Data integration?
- d) What is Snow Flake Schema? Give an example.
- e) What is Gini Index?
- f) What is Precision?
- g) Define metadata with an example.
- h) What is the significance of high false negative results?
- i) List some methods of unsupervised classification.
- j) How do we evaluate classifier's accuracy?

## SECTION-B

2. What is Data Mining and explain the knowledge discovery process?
3. What are the different techniques for filling in the missing values for any attribute?
4. Explain the differences between Operational Database Systems and Data Warehouses.
5. Explain Naive Bayes Classification.
6. Explain the algorithm for frequent item set mining with an example.
7. Write short notes on :
  - a) Data Visualization Tools
  - b) Attribute Selection Measures.

**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.**