

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (INFORMATION TECHNOLOGY) (Sem.–7,8)

**DATAWARE AND MINING**

Subject Code : BTIT-706-18

M.Code : 90558

Date of Examination : 01-07-22

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 FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

1) Write briefly :

- a. What is descriptive and predictive data mining?
- b. List out the various OLAP operations.
- c. What is pre pruning?
- d. What are the hierarchical methods used in classification?
- e. Define bagging.
- f. Define web structure mining.
- g. What is a multimedia database?
- h. What are the weaknesses of hierarchical clustering?
- i. What are frequent patterns? Give an example.
- j. Define confidence of an association rule.

### SECTION-B

- 2) A data warehouse can be modeled by either a star schema or a snowflake schema. Briefly describe the similarities and the differences between the two models. Give your opinion of which might be more empirically useful and state the reasons behind your answer.
- 3) Explain the various data mining repositories on which mining can be performed.
- 4) Explain Naive Bayesian classification in detail with an example.
- 5) Describe the three-tier architecture of the data warehouse.
- 6) Explain why mining descriptive statistical measures in large databases are needed?

### SECTION-C

- 7) Write and explain the algorithm for mining frequent item sets without candidate generation. Give relevant example.
- 8) What is a star schema? How star joins and star indexes are created?
- 9) a) Write about Lazy Learners for classification.  
b) Describe KNN Algorithm for data classification with an appropriate example.

**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.**