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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Electrical & Electronics Engineering) (Sem.-7)**DATA MINING AND PATTERN RECOGNITION**

Subject Code : BTEEE-805F

M.Code : 71974

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**Q1. Answer briefly :**

- a) Differentiate between data warehouse and operational database.
- b) Discuss role of support and confidence in association rules.
- c) What are the steps involved in data pre-processing?
- d) What do you understand by multi dimensional data model?
- e) What is K-nearest neighbour algorithm?
- f) Why is association rule necessary?
- g) List the typical OLAP operations.
- h) What do you mean by prediction classification? Discuss.
- i) Discuss social impacts of data mining.
- j) Write applications of pattern recognition in Bioinformatics.



SECTION-B

- Q2. State Bayes theorem and discuss how Bayesian classifier works.
- Q3. Discuss various schemas used for modeling a data warehouse using suitable examples.
- Q4. Discuss classification by decision tree induction.
- Q5. What do you mean by pattern recognition? Discuss its importance and applications.
- Q6. Explain various methods of data cleaning.

SECTION-C

- Q7. What is clustering? Explain various types of clustering methods with the help of suitable examples.
- Q8. Explain the architecture of a data warehouse with the help of a diagram.
- Q9. What do you mean by data pre-processing? Explain various steps involved in preprocessing of data.

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.