Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) / (AI & ML) (Sem.–6)

MACHINE LEARNING

Subject Code : BTCS619-18

M.Code : 93395

Date of Examination : 26-05-2023

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 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. Define Machine Learning.

b. Give any suitable example of reinforcement learning.

c. What is difference between training data and test data?

d. Why do we need feature dimensionality reduction?

e. Define mean absolute error.

f. List few regression algorithms.

g. What is hyperplane?

h. List few disadvantages of decision tress algorithms.

i. Define Confidence

j. Write few applications of ANN.

SECTION-B

2. What do you mean by a well posed learning problem? Explain the important features that are required to well define a learning problem.

3. Why do we need data cleaning? Discuss the main steps in data cleaning.

4. Explain the multiple linear regression model for prediction.

5. What is logistic regression? How logistic regression works?

6. Explain the Apriori Algorithms with the help of a suitable example.

SECTION-C

7. What is the difference between classification and clustering? Discuss the different clustering methods used in machine learning.

8. What is data normalization? Why do we need it? Explain different methods of data normalization in detail with the help of suitable examples.

9. Write a Short note on :

   a. Confusion Matrix for evaluation classification models

   b. Activation functions in ANN.

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.