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

Total No. of Questions : 09

M.Sc.(IT)   (Sem.–4)

MACHINE LEARNING

Subject Code : PGCA-1945

M.Code : 79568

Date of Examination : 22-12-2022

Time : 3 Hrs.   Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1.   **Write short notes on :**

   (a) What is deep learning?

   (b) What is validation?

   (c) Explain the term "*classification*".

   (d) What is difference between "*training and testing data*"?

   (e) What is cause of over fitting?

   (f) Explain boosting.

   (g) What are auto regressive models?

   (h) Where is clustering used?

   (i) What is a time series analysis?

   (j) Explain logic behind random forest algorithm.

SECTION-B

2. What F-measure signifies? How it is calculated?

3. What is gradient descent?

4. Explain k-nearest neighbor algorithm.

5. Write the use of logistic regression.

SECTION-C

6. Explain the use of decision tree.

7. Write the k-mean algorithm.

8. What is the use of principal component analysis?

9. Write a note on Markov models.

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.