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Total No. of Printed Pages: 1

Total No. of Questions: [09]

BCA-MCA Dual Degree (Semester – 8th)
MACHINE LEARNING
Subject Code: BMCAS1-802
Paper ID: 18340134

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a What is Machine learning? What is its need?
- b State Bayes theorem
- c Differentiate between bagging and boosting.
- d What do you mean by the curse of dimensionality?
- e Explain Ranking.
- f What is time series data?
- g What is the difference between classification and regression?
- h How machine learning is helpful in IOT applications?
- i What is deep learning?
- j What is Cross validation?

Section – B

(5 marks each)

- Q2. What is a decision tree & discuss the use of a decision tree for classification purposes with an example.
- Q3. List the applications of clustering and identify advantages and disadvantages of clustering algorithm.
- Q4. Explain the concept of Bagging with its uses?
- Q5. Discuss scalable Machine learning with distributed & online?
- Q6. Give a detailed note on Classification methods for IOT with a neat sketch?

Section – C

(10 marks each)

- Q7. Give a detailed note on kernel methods?
- Q8. Define Model Selection & Discuss in detail?
- Q9. Explain the various models for IOT applications.