

2211000609020001
EXAMINATION NOVEMBER 2024
BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)
(MASTER OF SCIENCE (INFORMATION TECHNOLOGY) 5
YEAR INTEGRATED COURSE) (NINTH SEMESTER)
MACHINE LEARNING USING PYTHON - LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) (MASTER OF SCIENCE (INFORMATION TECHNOLOGY) 5 YEAR INTEGRATED COURSE) (NINTH SEMESTER)**
 - b. Name of the Subject : **MACHINE LEARNING USING PYTHON - LEVEL 2**
 - c. Subject Code No : **2211000609020001**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Attempt any Two Questions:

14

- [A]What is Machine Learning? Explain various Applications of Machine Learning.
- [B]Explain various types of Machine Learning.
- [C]How to characterization Machine Learning problems? Explain about dataset and its significance in Machine Learning model development.

Q.2 Attempt any Two Questions:

14

- [A]Explain variables and datatypes of Python programming language.
- [B]Explain comparison and logical operators of Python programming language.
- [C]What is Python Library? Explain Numpy.

Q.3 Attempt any Two Questions: 14

- [A] Explain Data set preparation, pre-processing and MNIST Data set.
- [B] What is Supervised ML? Explain K-Nearest neighbor technique.
- [C] Write a complete note on Reinforcement Learning.

Q.4 Attempt any Two Questions: 14

- [A] Explain Linear regression Machine Learning.
- [B] What is Regression? Explain Polynomial regression Modeling.
- [C] Write a complete note on Deep Learning.

Q.5 Attempt any Two Questions: 14

- [A] What is ANN? Explain about Loss function and Gradient decent.
- [B] What is the lambda function? Explain with an example of addition of two numbers.
- [C] What is Cross validation? Explain about different types of it.
