

Register No:

Date:



ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
M.SC. BIG DATA ANALYTICS - II SEMESTER
SEMESTER EXAMINATION: APRIL 2018
BDA 2316: MACHINE LEARNING I

TIME: 1 ½ HRS

MAX MARKS 35

This Question Paper Contains ONE Printed Pages
Answer any Seven questions of the following.
All question carry equal marks (5 marks)

1. What is machine learning? How is it different from artificial intelligence?
2. Explain the FIND-S algorithm with suitable example?
3. What is the difference between supervised and unsupervised algorithms?
4. Classify the following algorithms and state the end application of the algorithms in terms of predictive or classification or else clustering and also as supervised & unsupervised
 - a. Linear Regression
 - b. Logistics Regression
 - c. KNN
 - d. ANN
 - e. SVM
5. Solve the given problem using the concept of machine learning (Use supervised learning algorithm)

Id	Lot Area(sq ft)	Sale Price(Rs)
1	8450	208500
2	9600	181500
3	11250	223500
4	9550	140000
5	14260	250000
6	14115	143000
7	10084	307000

6. Explain support vector machine algorithm? What are the different kernels used in the algorithm?
7. What is the difference between forward and backward propagation in a neural network?
8. Why dimensionality reduction is an important part of machine learning? Explain any one algorithm.
9. *Is machine learning changing the course of the modern world?* Debate on this statement and bring out yours explain in terms of "For and against".