

M. Tech.-I (Information Technology) (CBCS – 2015 Course) :

WINTER - 2018

SUBJECT: MACHINE LEARNING

Day: Wednesday

W-2018-3117

Time: 11.00 AM TO 02.00 PM

Date: 05/12/2018

Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagram **WHEREVER** necessary.
 - 4) Assume suitable data if necessary.
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SECTION-I

Q.1 What are the types of Machine Learning? Explain Reinforcement Learning. (10)

OR

Q.1 What is Linear Regression? How it is useful in Machine Learning? (10)

Q.2 Explain Probability Density Function in detail. (10)

OR

Q.2 What is Artificial Neural Network? List various real-life applications. (10)

Q.3 What is estimation? Explain binomial distribution. (10)

OR

Q.3 Compare and contrast Generative and Discriminative model (10)

SECTION-II

Q.4 How the Learning is occurs in Machine Learning? Explain with the help of suitable examples. (10)

OR

Q.4 What is a role of a Dataset? Why it is required? Where to get a standard dataset. (10)

Q.5 What are Lanrange Multipliers? Explain this concept in detail. (10)

OR

Q.5 What is Clustering? How the cluster number is decided? (10)

Q.6 Explain Hidden Markov Model in detail. (10)

OR

Q.6 Write a Pseudo Code for the Forward Algorithm and explain the functionality of the algorithm in detail. (10)

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