

**M. TECH.-I (INFORMATION TECHNOLOGY) (CBCS – 2015
COURSE) : SUMMER - 2018
SUBJECT: MACHINE LEARNING**

Day: **Wednesday**
Date: **30/05/2018**

S-2018-2979

Time: **11.00 AM TO 02.00 PM**
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.
- 5) Answers to both the sections should be written in the **SEPARATE** answer books

SECTION-I

Q.1 What are practical applications of Machine Learning? Explain how machine learning helps Internet Search Engines to optimize and display correct search results. **(10)**

OR

Q.1 How Machine Learning concept help different sectors like Robotics, Automotive. **(10)**

Q.2 Explain how real-life problems can be solved with the help of Machine Learning. **(10)**

OR

Q.2 What are the Multidimensional Inputs and Multidimensional Outputs? **(10)**

Q.3 Write a note on Gaussian Distribution. **(10)**

OR

Q.3 Explain the concept of Rule Based Machine Learning. **(10)**

SECTION-II

Q.4 What is the role of probability in Machine Learning? Explain with suitable examples. **(10)**

OR

Q.4 Explain Viterbi Algorithm in detail and also write pseudo code. **(10)**

Q.5 What is Cross validation? Why it is required? **(10)**

OR

Q.5 What are the inequality constraints in Language Multipliers **(10)**

Q.6 How the Learning works in Machine Learning? Explain how standard dataset plays a vital role in Learning. **(10)**

OR

Q.6 Explain in short the role of Machine Learning in Driverless Cars and Smart Phones **(10)**

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