

Total No. of Questions : 4]

SEAT No. :

P8996

[Total No. of Pages : 1

Oct-22/BE/Insem-159

B.E. (Honors)

MACHINE LEARNING

(2019 Pattern) (Semester - VII) (410301)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) What is Linear discriminate analysis? Explain in detail. [7]

b) Explain the role of machine learning algorithms in following applications. [8]

- i) Spam filtering
- ii) Natural Language Processing

OR

Q2) a) What is unsupervised machine learning? Explain it in detail with example. [5]

b) Explain Vapnik-Chervonenkis Dimension in detail. [5]

c) Briefly describe the concept on model selection and generalization. [5]

OR

Q3) a) Define and explain Logistic regression with example. [8]

b) Explain the difference between Ridge and Lasso regression. [7]

OR

Q4) a) What is regression? List the applications of regression. Explain types of regression with example. [8]

b) Write short note on [7]

- i) Least Angle Regression
- ii) Ridge Regression

