

Total No. of Questions : 4]

SEAT No. :

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Oct-22/BE/Insem-161

B.E. (Computer Engineering) (Semester - VII)
MACHINE LEARNING AND DATA SCIENCE
(Honours in Data Science)
(2019 Pattern) (410501)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q. 1 or Q. 2, Q. 3 or Q. 4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Assume suitable data, if necessary.*

- Q1)** a) What is difference between simple linear and multiple linear regressions? [8]
b) What is residual? How is it computed? [7]

OR

- Q2)** a) What is difference between regression model and estimated regression equation? [8]
b) Explain odds and odds ratios along with their interpretation? [7]
- Q3)** a) What are support vectors? What is role of these support vectors in the SVM classification algorithm? [8]
b) Write a short note on Kernel PCA. [7]

OR

- Q4)** a) Explain K-Nearest Neighbour learning algorithm with example. [8]
b) How to find optimal separating hyperplane in SVM algorithm? Explain with example. [7]

