

Total No. of Questions : 4]

SEAT No. :

PC-316

[Total No. of Pages : 1

[6361]-188

B.E. (AIDS) (Insem.)

MACHINE LEARNING

(2019 Pattern) (Semester - VII) (417521)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

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

- Q1)** a) Describe Machine Learning and differentiate it from traditional programming. [6]
- b) Explain Principal Component Analysis used in Machine Learning. [5]
- c) Explain the relationship between Artificial Intelligence, Machine Learning and data science. [4]

OR

- Q2)** a) Explain types of Machine Learning. [6]
- b) Explain Linear Discriminant Analysis (LDA) used in Machine Learning. [5]
- c) Differentiate Grouping and Grading models of Machine Learning. [4]

- Q3)** a) Explain three evaluation metrics used for regression model. [6]
- b) Explain the Random forest Regression. [5]
- c) Differentiate between Regression and Correlation. [4]

OR

- Q4)** a) What is Regression? Explain types of Regressions. [6]
- b) Explain Bias-Variance Trade-off with respect to Machine Learning. [5]
- c) Differentiate Ridge and Lasso Regression techniques. [4]

