**SEAT No. :**

**P-5321**

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# B.E. (A. I. D. S.) (Insem.)
# MACHINE LEARNING
# (2019 Pattern) (Semester - VII) (417521)

*Time : 1 Hour]*             *[Max. Marks : 30*

*Instructions to the candidates :*

1) *Answers Q.1 or Q.2, Q.3 or Q.4.*
2) *Make suitable diagram wherever necessary.*
3) *Figure to the right indicate full marks.*
4) *Assume suitable data if necessary.*

*Q1)* a) Compare Machine Learning with Traditional programming. **[5]**

b) What is Dimensionality Reduction, Explain any one Dimensionality Reduction technique. **[6]**

c) Write a note on Reinforcement Learning. **[4]**

OR

*Q2)* a) Explain parametric & nonparametric models in machine learning. **[5]**

b) Differentiate supervised and unsupervised learning techniques. **[5]**

c) Elaborate grouping and grading models. **[5]**

*Q3)* a) Elaborate random forest regression. **[5]**

b) Differentiate multivariate regression and univariate regression. **[4]**

c) Define Regression. Explain types of regression. **[6]**

OR

*Q4)* a) What is underfitting and overfitting in machine Learning explain the techniques to reduce overfitting? **[5]**

b) Explain any two Evaluation Metrics for regression. **[5]**

c) Explain Elastic Net regression in Machine Learning. **[5]**

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