PC-316

SEAT No. :

[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]**

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