P5339

[6188]-320

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

Time : 1 Hour]   *[Max. Marks : 30*
Instructions to the candidates:
1) *Solve questions 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 are the Linear Models used in Statistics? Explain any two with suitable examples. **[8]**

b) Explain the terms Regression, Residuals and Regression Inference in detail. **[7]**

OR

Q2) a) What is mean by an Odds Ratio? How to do Interpretation of Odds and Odds Ratios. **[7]**

b) Explain the Poisson Regression and Logistic Regression in depth. **[8]**

Q3) a) Enlist the features of Random Forest Algorithm. Explain working of Random Forest Algorithm with example. **[8]**

b) What is Ensemble Learning? Explain Booting and Bagging ensemble methods. **[7]**

OR

Q4) a) How does Random forest select features? Does it work differently for Classification and Regression if yes, explain it? **[7]**

b) Explain the working of Support Vector Machine classification algorithm. **[8]**

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