

007706**Dec. 2021****B.Tech. (EL) VII SEMESTER
MACHINE LEARNING (ELOE-123)**

Time : 90 Minutes]

[Max. Marks : 25

Instructions :

1. *It is compulsory to answer all the questions (1 mark each) of Part-A in short.*
2. *Answer any three questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART - A

1. (a) What is regression? (1)
- (b) What do you mean by variance? (1)
- (c) What is data preprocessing? (1)
- (d) What is unsupervised learning? (1)
- (e) What are decision trees? (1)
- (f) What is Dataset? (1)
- (g) What is clustering? (1)

- (h) What is neural network? (1)
- (i) What is Regression? (1)
- (j) What is bagging? (1)

PART - B

- 2. What is machine learning? Explain different types of machine learning. (5)

 - 3. (a) Mention and describe any distance based clustering method. (2)
 - (b) What is support vector machine? (3)

 - 4. What is Principal Component Analysis? Explain Principal Component Analysis in detail. (5)

 - 5. (a) What is linear regression? Explain briefly. (3)
 - (b) What is Naïve Bayes Classifier? (2)

 - 6. (a) What is Random Forest? (3)
 - (b) Explain genetic algorithm. (2)
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