

D

L2D002

Pages: 2

Reg. No. _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SECOND SEMESTER MCA (LATERAL ENTRY) DEGREE EXAMINATION, MAY 2017

Course Code: RLMCA208

Course Name: INTRODUCTION TO MACHINE LEARNING

Max. Marks: 60

Duration: 3 Hours

PART A

Answer all questions. Each question carries 3 marks.

1. How uniform distribution differs from normal distribution?
2. What are the strengths and weaknesses of K-NN Algorithm?
3. What do you mean by a decision tree?
4. What is correlation?
5. Explain about perceptron.
6. What is deep learning? How it differs from lazy learning.
7. What is a Support Vector?
8. How Boosting process improves model performance?

PART B

Answer all questions. Each question carries 6 marks.

9. How do machines learn? Explain the steps in detail with the help of relevant diagram.

Or

10. Describe the different measurements of central tendency & measures of spread with relevant examples?
11. Explain K-NN Algorithm with an example. Mention its Strengths & Weaknesses.

Or

12. With an example Explain Naive Bayes classification algorithm.
13. What do you mean by decision trees? Explain about the divide and conquer for the construction of decision trees with an example.

Or

14. Explain about Simple Linear Regression & Multiple linear regression. How it differs?

D

L2D002

Pages: 2

15. With the help of a neat diagram Explain about neural network models.

Or

16. What are activations function? Discuss various types of activation functions.

17. How Classification using hyper planes is possible? What is Maximum Margin Hyperplane?

Or

18. SVMs with nonlinear kernels are extremely powerful classifiers. Discuss the strengths and weaknesses of classification using kernel. What do you meant by a kernel function? List out and define any two commonly used kernel functions.

19. How ensembles learning improves model performance? Explain anyone ensemble based method.

Or

20. How will you evaluate the performance of a model using confusion matrices?
