A Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The Shape of the normal curve is _____.   CO1- U

    (b) Flat   (c) Circular   (b) Rectangle   (c) all of the above

2. The value of constant 'e' appearing in normal distribution is _____.   CO1- U

    (b) 2.7836   (c) 2.1783   (b) 3.7836   (c) -2.1783

3. How many types of discriminant analysis are there?   CO1- U

    (a) 0   (b) 1   (c) 2   (d) 3

4. What are alpha and beta in LDA?   CO1- U

    (a) objects   (b) class   (c) parameters   (d) all of the above

5. PCA is used to find _____.   CO1- U

    (a) Relationship between components   (b) Linear regression

    (c) Linear relation   (d) Inter relation

6. There are _____ types of Supervised Learning algorithms used for classification   CO1- U
    in Machine Learning.

    (a) 2   (b) 3   (c) 4   (d) 5

7. What will be the output of the following Python expression if x=56.236?   CO1- U

    print("%.2f"%x)

    (a) 56.236   (b) 56.23   (c) 56.0000   (d) 56.24

8. Which of the following character is used to give single-line comments in Python?   CO1- U

   (a) //   (b) #   (C) !   (d) /*

9. In the client server model of the cluster _____ approach is used.   CO1- U

   (a) Load configuration   (b) FIFO   (c) Bankers algorithm   (d) Round robin

10 A single shared cluster must have exclusive use of its _____ servers.   CO1- U

   (a) local   (b) global   (c) config   (d) none of the above

PART – B (5 x 2= 10 Marks)

11 Write an example of multiple regression?   CO1- U

12 How does discriminant function support classification?   CO3- Ana

13 What is the application of factor analysis?   CO1- U

14 What libraries are available in the Python Standard library?   CO1- U

15 What is meant by hierarchical clustering?   CO1- U

PART – C (5 x 16= 80 Marks)

16 (a) Briefly Describe about Multiple linear Regression ?   CO1- U   (16)

Or

   (b) What is linear regression? Explain the different relationship of linear regression?   CO1- U   (16)

17 (a) To solve Linear Discriminant function analysis   CO2- App   (16)
C1->X1=(X1,X2)={(4,1),(2,4),(2,3),(3,6),(4,4)}
C2->X2=(X1,X2)={(9,10),(6,8),(9,5),(8,7),(10,8)}

Or

   (b) Explain in detail about algorithms of linear discriminant analysis.   CO1- U   (16)

18 (a) What are the Algorithms for conducting Principal component analysis?   CO1- U   (16)

Or

   (b) Discuss about how many steps involved in factor analysis model?   CO1- U   (16)

19. (a) Explain in detail about Python Interpreter and program execution?   CO1- U   (16)

Or

   (b) Discuss about Statements and Expressions?   CO1- U   (16)

20.   (a)   Explain in detail about Clustering and its Methods?   CO1-U   (16)

                                         Or

      (b)   Briefly discuss about Partitioning clustering?   CO1-U   (16)

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