C   Reg. No. :

1. Write the output of the following Code :   CO1- U

   str = "Welcome"

   l=len(str)

   print(l)

   (a) 6   (b) 7   (c) 8   (d) Error

2. Data in _____ bytes size is called Big Data.   CO2- U

   (a) Tera   (b) Giga   (c) Peta   (d) meta

3. According to analysts, for what can traditional IT systems provide a   CO3- U
   foundation when they're integrated with big data technologies like
   Hadoop?

   (a) Big data management and data mining

   (b)Data warehousing and business intelligence

   (c)Management of Hadoop clusters

   (d) Collecting and storing unstructured data

4. _____ is general-purpose computing model and runtime system for   CO1- U
   distributed data analytics.

   (a) Map Reduce   (b) Drill   (c) Oozie   (d) None of the mentioned

5. The daemons associated with the MapReduce phase are _____ and task-   CO1- U
   trackers.

   (a) job-tracker   (b) map-tracker   (c) reduce-tracker   (d) all of the mentioned

<div align="center">PART – B (5 x 3= 15Marks)</div>

6. What is Data Science?   CO1- U

7. What are the advantages of clustering?   CO2- U

8. Write the advantage and disadvantage of clustering   CO3- U

9. How many name nodes are there in HDFS?   CO4- U

10. What is Job Tracker?   CO5- U

<div align="center">PART – C (5 x 16= 80Marks)</div>

11. (a) Write Python Operators with example   CO1-U   (16)
                                Or
    (b) Write Python data types with example?   CO1-U   (16)

12. (a) How to construct a decision tree in R using classification   CO2-U   (16)
        techniques With suitable example.
                                Or
    (b) What is Bayesian Classifier? Write the applications of naïve   CO2-U   (16)
        bayes Classifier?

13. (a) What is the function of Secondary Name node? Write the   CO3-U   (16)
        advantage and disadvantage of Hadoop?
                                Or
    (b) What is a checkpoint? How is HDFS fault tolerant?   CO3-U   (16)

14. (a) What is meant by HDFS? What is Hadoop HDFS architecture   CO4- U   (16)
        with diagram?
                                Or
    (b) Write the anatomy of read and write a file in HDFS?   CO4- U   (16)

15. (a) What is mapper phase and Reducer phase in Hadoop?   CO5-U   (16)
                                Or
    (b) What is Map Reduce explain its use? What are the applications of CO5-U   (16)
        Map Reduce?