

(FOR THE CANDIDATES ADMITTED DURING
THE ACADEMIC YEAR 2020-21 ONLY)

SUBJECT CODE **20UCT4A4**

REG.NO.

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

EVEN END-OF-SEMESTER EXAMINATIONS : JULY – 2022

B.Sc. – Comp.Technology

MAXIMUM MARKS: 70

SEMESTER : IV

TIME : 3 HOURS

PART - III

ALLIED IV : BIG DATA ANALYTICS

SECTION - A(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

(Qn. No. 1 - 5)

1. Precise and steady format data is _____.
a) Structured Data b) Unstructured Data c) Semi Structured Data d) Quasi Structured Data
2. Data in _____ bytes size is called BigData.
a) Meta b) Giga c) Tera d) Peta
3. Which of the following is HBase data model terminology?
a) Row b) Table c) Column d) all of the above
4. _____ programming model used to develop Hadoop based applications that can process massive amount of data.
a) Mahout b) Mapreduce c) Oozie d) All of the above
5. Inconsistent data is _____.
a) Structured Data b) Unstructured Data c) Semi Structured Data d) Quasi Structured Data

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

(Qn. No. 6 - 10)

6. Define Big Data.
7. Differentiate Client and Server.
8. What is meant by virtualization?
9. Write the role of Map Reduce in Big Data.
10. Enlist the example of unstructured Data.

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.****(Qn. No. 11 to 15) 10 questions (a & b) – 2 questions from each unit.****(K3)**

11. a) How will you build a successful big data management architecture?
(OR)
b) Differentiate structured data and unstructured data.
12. a) Explain the basics of distributed computing.
(OR)
b) Write a note on the concept of big data analytics
13. a) Discuss the importance of virtualization in big data.
(OR)
b) What is the use of columnar database in Big Data?
14. a) Enumerate the origins of map reduce.
(OR)
b) Classify the use of adding the reduce function in map reduce. Explain it.
15. a) Exemplify the concept of text analytics.
(OR)
b) Describe the Characteristics of Big data analysis

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS****(FROM Qn. No : 17 to 21)****(K4 (Or) K5)**

16. Elucidate the concept of big data applications.
17. Exemplify the evolution of data management.
18. Present the big data stack with its layers.
19. Enlighten the following document databases: a) MongoDB b) CouchDB
20. Expound the fundamentals of Map Reduce.
21. State the characteristics of big data analysis framework
