

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2024

B.Sc – C S With DA

MAXIMUM MARKS: 50

SEMESTER-V

TIME : 3 HOURS

PART – III

22UDA516 - CORE IX – BIG DATA ANALYTICS

SECTION – A

(10 X 1 = 10 MARK)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

- _____ is the organized data in standardized format and stored in database. (K1)
 - Unstructured Data
 - Structured Data
 - Big Data
 - Digital Data
- _____ datatype is stored in non tabular data format rather than relational tables. (K1)
 - No-SQL
 - SQL
 - RDBMS
 - NonSQL
- _____ is in second phase of processing data in Hadoop. (K1)
 - Reducer
 - Combiner
 - Partitioner
 - Mapper
- What is the language used to write Hive queries?
 - Java
 - Python
 - SQL
 - HiveQL_____
- Which of the following function is used to read data in PIG?_____ (K1)
 - WRITE
 - READ
 - LOAD
 - GRUNT

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Indicate the challenges with Big Data. (K2)
7. Differentiate RDBMS Vs Hadoop in two sentences. (K2)
8. Expand CRUD. (K2)
9. Define Hive. State why it is used. (K2)
- 10.State various execution modes in PIG. (K2)

(CONT...2)

SECTION – B (5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe the Classification of digital data. (K3)
(OR)
b) Examine the terminologies used in Big Data Environments. (K3)
12. a) Explain Hadoop Distributed file system in brief. (K3)
(OR)
b) Sketch the comparison of SQL and NoSQL. (K3)
13. a) Evaluate the search process in MongoDB. (K3)
(OR)
b) Describe terms used in Moong RDBMS and Moong DB. (K3)
14. a) List the various file formats of HIVE. (K3)
(OR)
b) Discuss the HIVE User Defined Function. (K3)
15. a) Examine primitive data types of PIG in brief. (K3)
(OR)
b) Sketch the complex data type of PIG. (K3)

SECTION – C (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)

16. a) Discuss the Big Data Characteristics, its Evolution and Challenges. (K4)
(OR)
b) Summarize Top Big Data Analytics tools in Detail. (K4)
17. a) Investigate how the Data is processed in Hadoop. (K4)
(OR)
b) Analyze how to interact with Hadoop Ecosystem. (K4)
18. a) Examine MongoDB Query language in Detail. (K4)
(OR)
b) Outline Various Map Reduce Techniques. (K4)
19. a) Analyze HIVE Query Language in Detail. (K5)
(OR)
b) Discuss Serialization and Deserialization. (K5)
20. a) Summarize various HDFS commands in PIG. (K5)
(OR)
b) Discuss User Defined Functions and its types in PIG. (K5)