

MASTER OF COMPUTER APPLICATION
THIRD SEMESTER
BIG DATA ANALYTICS
MCA-304.1

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- Which of the following is a wrong statement?
 - The big volume actually represents big data
 - Big data is just about tons of data
 - The data growth and social media explosion have improved that how we look at the data
 - All of these
- Which of the following is correct statement?
 - ML emphasizes on prediction, based on well known properties learned from the training data
 - Data cleaning emphasizes on prediction, based on well known properties learned from training data
 - Both a and b
 - None
- Beyond volume, velocity and variety are the concerns and problems of big data veracity.
 - True
 - False
 - Partially true
 - Partially false
- Which of the big data characteristics is comparatively more concerned with data science?
 - Variety
 - Velocity
 - Volume
 - None
- 3V's are not enough to describe big data.
 - True
 - False
 - Partially true
 - Partially false
- Which step is executed by the data scientist after obtaining the data?
 - Data replication
 - Data integration
 - Data cleaning
 - All of these
- Which of the following emphasizes on the discovery of the earlier properties that are not known on the data?
 - ML
 - Big data
 - Data migrating
 - Data mining

8. Which of the following is statistical process of analysis for guessing the relationship among variables?
- a. Causal
 - b. Multivariate
 - c. Regression
 - d. All of these
9. Hadoop run which of the following platform?
- a. Cross-platform
 - b. Debian
 - c. Bare-metal
 - d. Unix-like
10. The world's largest Hadoop cluster?
- a. Apple
 - b. Facebook
 - c. Datamatics
 - d. None

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Illustrate the concept of bigdata 5 V's. | 5 |
| 2. Draw the hadoop architecture and discuss its components in detail. | 10 |
| 3. Discuss the five layer architecture of big data in detail. What are the challenges in big data? Explain different types of data format using preprocessing. | 5+2+3=10 |
| 4. Explain the various forms of scalability in big data. Explain the map reduce process step by step. | 5+5=10 |
| 5. Describe the policy of data quality of big data analysis along with mentioning 5 Rs. Explain various data processing methods and applications of big data analysis. | 5+5=10 |

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