

9. (a) What is Hadoop Cluster ? How does a Hadoop cluster work ? Also explain the benefits of Clustering.
- (b) Explain the concept of Big Data in E-Commerce and IT.

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Roll No. :

Total No. of Questions : 9]

[Total No. of Pages : 4

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MCA 5th Semester (Regular)
Examination, February-2022
(CBCS Scheme Current w.e.f. 2018-19)
Paper-18MCA35DA2

BIG DATA ANALYTICS

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note :- Attempt five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Explain the concept of Big Data.
- (b) What do you mean by Data Stream ?
- (c) Explain the concept of Intelligent Data analysis.

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- (d) Explain the concept of Big Data in Energy Consumption.
- (e) Explain the concept of Hadoop Streaming.
- (f) What do you understand by Filtering Streams ?
- (g) Differentiate between Hadoop and HDFS.
- (h) What do you mean by Prediction Error ?

Unit-I

- 2. (a) What do you understand by nature of Data ? Explain the concept of Data Analytic Processes in detail.
- (b) What do you mean by Statistical Inference? Explain the importance of Statistical Inference in detail.
- 3. (a) Explain the following :
 - (i) Challenges of Big Data
 - (ii) Intelligent data analysis
- (b) What do you mean by sampling and sampling distributions ? How do you find the sampling distribution ? Explain through suitable example.

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Unit-II

- 4. Explain the following in detail :
 - (a) Sampling Data in a Stream through suitable example
 - (b) Concept of Stream Data model and Architecture
- 5. Explain the following in detail :
 - (a) Real time Analytics platform (RTAP) Applications
 - (b) Counting Distinct Elements in a Stream

Unit-III

- 6. What do you mean by Map Reduce ? How Map reduce works ? Explain the Map Reduce features in detail. Also explain the Map Reduce Types and formats in detail.
- 7. Explain the following in detail :
 - (a) Hadoop Distributed File system
 - (b) Design of HDFS

Unit-IV

- 8. Explain the following in detail :
 - (a) Big Data in Social and Health Science
 - (b) Security in Hadoop

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