

USN

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Eighth Semester B.E. Degree Examination, July/August 2022
Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. With a diagram, explain the HDFS components. (08 Marks)
b. Briefly explain HDFS block replication, Name node high availability, Snap shots and Safe mode. (08 Marks)

OR

- 2 a. Discuss the general HDFS commands. (08 Marks)
b. Write a HDFS Java application example for reading, writing and deleting files from HDFS. (08 Marks)

Module-2

- 3 a. With block diagram, discuss the various frameworks that run under YARN. (08 Marks)
b. With diagram, explain the concept of Apache squoop (08 Marks)

OR

- 4 a. List the importance of Apache Flume, explain with weblog example. (08 Marks)
b. With respect to Oozie, describe the following i) DAG ii) Workflow definition. (08 Marks)

Module-3

- 5 a. List three business intelligence applications in the hospitality industry. (08 Marks)
b. What are the two Data warehousing development approaches? Compare and contrast DW and Data mining. (08 Marks)

OR

- 6 a. List and explain BI Applications. (06 Marks)
b. Explain BIDM cycle with respect to BI. (06 Marks)
c. What is a confusion matrix? (04 Marks)

Module-4

- 7 a. With example illustrate decision tree algorithm? Describe three criteria for choosing splitting variable. (08 Marks)
b. What is a regression model? What are the advantages and disadvantages? (08 Marks)

OR

- 8 a. Explain the design principles of an Artificial Neural Network. (08 Marks)
b. Using the data below, determine the number of clusters and the center points of those clusters.

Data Set

x	2	2	5	4	8	6	5	5	6	4
y	4	6	6	7	3	6	2	7	3	4

(08 Marks)

Module-5

- 9 a. Define Text mining. Discuss the issues of private security by considering case study of whatsapp. (08 Marks)
b. Compare and contrast Text mining and Data mining. (08 Marks)

OR

- 10 a. What are the three types of web mining? Explain privacy issues in web mining. (08 Marks)
b. Discuss Page Rank application with reference to social network analysis. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.