Model Question Paper

Seventh Semester B.E. Degree Examination (2021-22) BIG DATA AND ANALYTICS

Time: 03 Hours

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

MODULE-1

1 a. Define Big Data. Explain the Evolution of Big Data and their characteristics (10 Marks)

b. What is grid computing? List and explain the features, drawbacks of grid computing

(10 Marks)

OR

a. Discuss the functions of each of the five layers in Big Data architecture design (10 Marks)
b. Illustrate the various phases involved in Big Data Analytics with neat diagram. (10 Marks)

MODULE-2

3	a. Illustrate the Hadoop core components with neat diagram	(10 Marks)
	b. Discuss the Hadoop system and ecosystem components in four layers	(10 Marks)
	OR	
4	a. Illustrate YARN based execution model and its functions With a neat diagram	
		(10 Marks)
	b. Discuss the Apache sqoop import and export methods with neat diagram	(10 Marks)

MODULE-3

5	a. Discuss the NoSQL data stores and their characteristic features	(10 Marks)
	b. Illustrate the key value pairs in data architectural patterns with an example	
		(10 Marks)

OR

6.	a. Discuss the functions of MangoDB query language and database commands	(10 Marks)
	b. Illustrate the CQL commands and their functionality	(10 Marks)

Max Marks: 100

MODULE-4

7	a. Describe the MapReduce execution steps with neat diagram				
		(10 Marks)			
	b. Discuss the functions of Group By, partitioning and combining using one exam	nple for each			
		(10 Marks)			
	OR				
8	a. Illustrate main features and Architecture of Hive with neat diagram.	(10 Marks)			
	b. Discuss the pig Latin data types and examples	(10 Marks)			
MODULE-5					
9	a. Discuss Analysis of Variances(ANOVA) and correlation indicators of linear relationship				
		(10 Marks)			
	b. Describe the regression analysis predict the value of the dependent variable in	case of linear			
	regression	(10 Marks)			
OR					

10a. Illustrate the various phases in text mining process pipeline(10 Marks)b. Describe the web content mining and three phases for web usage mining(10 Marks)

(10 Marks)