

Eighth Semester B.E. Degree Examination, Aug./Sept.2020

Big Data Analytics

Time: 3 hrs. Max. Marks: 80

Note: i) For Regular Students: Answer any FIVE full questions irrespective of modules.
ii) For Arrear Students: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What are the various systems roles in an HDFS development? Explain with a neat diagram.
 (08 Marks)
 - o. Explain with a neat diagram HDFS Block replication. (08 Marks)
- 2 a. Write the code for simple mapper script and simple reducer script. (08 Marks)
 - b. With a neat diagram explain Apache Hadoop parallel mapReduce data flow. (08 Marks)

Module-2

- 3 a. Explain the two-step Apache Sqoop data import and export method. (08 Marks)
 - b. With a neat diagram explain YARN Application frameworks. (08 Marks)
- 4 a. Explain the Apache Ambasi dashboard view of a Hadoop cluster. (08 Marks)
 - b. How Basic Hadoop YARN administration is carried out? Explain. (08 Marks)

Module-3

- 5 a. List any ten different Business Intelligence applications and explain them in brief. (08 Marks)
 - . With a neat diagram explain Data warehousing architecture. (08 Marks)
- 6 a. How do you evaluate data mining results, explain with confusion matrix. (08 Marks)
 - b. Explain with a neat diagram different types of graphs. (08 Marks)

Module-4

- 7 a. Explain with a data set how to construct the decision tree. (08 Marks)
 - b. Using the data given in Dataset shown in Table Q7(b), create a regression model to predict the Test 2 from Test 1 score. Then predict the score for the one who got a 46 in Test 1.

Table Q7(b)		
Test 1 59	Test 2 56	
52	63	
44	55	CMRIT LIBRARY
51	50	BANGALORE - 560 037
42	66	
42	48	
41	58	
45	36	
27	13	
63	50	
54	81	
44	56	
50	64	
47	50	

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8	a. b. c.	What are the different design principles of artificial neural network? Explain. Write the advantages and disadvantages of K-means algorithm. How association rules are represented?	(08 Marks) (04 Marks) (04 Marks)
9	a. b. c.	Module-5 Explain with a neat diagram text mining process. What are the advantages and disadvantages of Naïve-Baye's algorithm? Explain with a neat diagram SVM model.	(08 Marks) (04 Marks) (04 Marks)
10	a. b.	Explain with a neat diagram web usage mining architecture. List and explain the applications of social network analysis.	(08 Marks) (08 Marks)
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