# 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)
  - b. 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)
  - b. 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 O7(b)

1 40	(v)
Test 1	Test 2
59	56
52	63
44	55
51	50
42	66
42	48
41	58
45	36
27	13
63	50
54	81
44	56
50	64
47	50

(08 Marks)

# For More Question Papers Visit - www.pediawikiblog.com

8	a.	What are the different design principles of artificial neural network? Explain.	(08 Marks)
	b.	Write the advantages and disadvantages of K-means algorithm.	(04 Marks)
	c.	How association rules are represented?	(04 Marks)
		Module-5	
9	a.	Explain with a neat diagram text mining process.	(08 Marks)
,	b.	What are the advantages and disadvantages of Naïve-Baye's algorithm?	(04 Marks)
		Explain with a neat diagram SVM model.	(04 Marks)
		2.17	
10	a.	Explain with a neat diagram web usage mining architecture.	(08 Marks)
	b.	List and explain the applications of social network analysis.	(08 Marks)