## CBCS SCHEME

	USN		18CS	372
	THE STATE OF THE S		Solienth Someston P. E. Dognes Everning fick Tule/August 2022	
Z	C	ME	Seventh Semester B.E. Degree Examination, July/August 2022  Big Data Analytics	
10	* BAN	GALO		
	Tin	ne:	hrs. Max. Marks: 1	00
نه		N	te: Answer any FIVE full questions, choosing ONE full question from each module.	
appeal to evaluator and /or equations written eg, $42+8=50$ , will be treated as malpractice.			Module-1	
malp	1	a.	Define Data, Web data, Big data. Also explain structured, semistructured and unstructured	
ted as		b.	data.  (10 Ma)  List and explain the characteristics of big data. Illustrate by considering an example	
e trea			E-commerce, how big data is used. (10 Max	
will b			OR O	
= 50,	2	a.	With a neat diagram, explain the function of each of the five layers in big data architect	
2+8=		b.	design. (12 Ma How does Berkeley Data Analytics stack help in analytics tasks? (08 Ma	
eg, 4				
/ritten	3	a.	Module-2 With a neat diagram, explain Hadoop main components and ecosystem components.	
ons w		b.	(08 Ma) Brief out the features of Hadoop HDFS? Also explain the functions of Name Node and D	
equat		•	Node. (08 Ma)	rks)
d /or		c.	Explain any two HDFS commands with example. (04 Mai	rks)
tor an			OR	
valua	4	a.	Explain the following:  (i) HDFS block replication (ii) HDFS safe mode.	
d to e			(iii) Rack awareness (iv) Name Node high availability. (12 Ma)	
appea		b.	Discuss the Apache sqoop Import and Export methods with neat diagrams. (08 Mar	rks)
ation,	_		Module-3	
ntifica	5	a. b.	List and compare the features of Big Table, RC, ORC and Parquet data stores. (10 Mar With example explain key-value store. (10 Mar	
of ide		C		
ling	6	a.	Discuss the usage of MongoDB, Cassandra, CouchDB, Oracle NoSQL and Riak. (10 Man	rks)
reve		b.	List the Pros and Cons of distribution using sharding. (05 Mail Give the comparison between NoSOL and SOL/RDBMS. (05 Mail of M	
2. Any revealing of identification,		c.	Give the comparison between NoSQL and SQL/RDBMS. (05 Mar	. KS)
7	7	•	Module-4 Describe MapReduce Execution steps with a neat sketch. (12 Man	rke)
	7	a. b.	How node failure can be handled in Hadoop? Discuss. (12 Mail	
			#	

1 of 2

(10 Marks) (10 Marks) Module-5

9 a. Discuss Regression Analysis using Linear and Non-linear regression models. (10 Marks)

b. Explain with an example Apriori algorithm to evaluate candidate key.

(10 Marks)

OR

10 a. Write a note on:

(i) Web mining

(ii) Web content mining.

(iii) Web usage mining.

(12 Marks)

b. How the Cliques discover communities from social network analysis?

(04 Marks)

c. Define a Page Rank.

(04 Marks)