Sanjay Ghodawat University, Kolhapur 2017-18

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

SGU

FY M Tech	School of Technology | Department of CS Engineering	Semester II
CCC 510.3	Data Science & Big Data Analytics	Max Marks: 100
MAY 2018	End Semester Examination (ESE)	Time: 3 Hrs

30th may 2018

10:30AM to 1:30pm

Instruction for Students: All questions are compulsory.

			Marks	COs
Q1		Solve any Two		
	a)	What is mean by data science? Explain the role and responsibilities of data scientist in industry?	09	2
	b)	Explain the concept of Tunable Consistency in Cassandra	09	5
	c)	Explain what is a replica set?	09	4
Q2	a)	How does Map-Reduce work?	09	3
	b)	Draw and explain the YARN architecture?	09	3
		OR		
	b)	Elaborate Hadoop Ecosystem in detail.	09	3
Q3	a)	Explain the concept of compaction in Cassandra	07	5
	b)	Explain the CAP theorem	07	5

			Marks	COs
Q4		Solve any Two		
	a)	How is traditional BI environment different from the big data environment?	09	1
	b)	What is the difference between HBase and Hive?	09	6
	c)	How replication works in MongoDB?	09	4
Q5	a)	What is big data? Explain typical data warehouse and hadoop environment.	09	1
	b)	What is sharding in MongoDB?	09	4
		OR		
	b)	While creating schema in MongoDB what are the points need to be taken in consideration?	09	5
Q6	a)	State and explain the classification of analytics	07	2
	b)	Explain about the different types of partitioning in Hive?	07	6

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