	[Total Marks: 75]	900
N	B.: (1) All questions are compulsory.	\$ 15 B
11.	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.	200
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	267
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
۱.	Attempt <u>any three</u> of the following:	
ì.	Explain the three Vs of Big Data.	2 (3)
).	Briefly explain the CAP theorem.	5
: .	What is MongoDB Design Philosophy? Explain.	
1.	Differentiate between SQL and NoSQL Databases.	
.	Write a short note on Non-Relational Approach.	
	Discuss the various applications of Big Data.	
2.	Attempt any three of the following:	15
ì.	Explain the Capped Collection.	
).	What are the various tools available in MongoDB? Explain.	
: .	Discuss the points to be considered while Importing data in a Shared environment.	
1.	Explain the concept Inserting by Explicitly Specifying_id.	
e.	Discuss Indexes and its types.	
	Write a short note on Data Distribution Process.	
3.	Attempt any three of the following:	15
ì.	What is Wired Tiger Storage Engine?	
).	List and explain the MongoDB limitations.	
: .	Explain the hardware requirements for MongoDB.	
1.	Write a short note on GridFS.	
e.	How are read and write operations performed in MongoDB?	
	Discuss how data is written using Journaling.	
,0	5.5.5.6.8.6.8.6.6.7.7.7.8.8.5.6.9.8.	
	Attempt <u>any three</u> of the following:	15
10	Diagrammatically explain the Spark architecture.	
	Explain the concept of Oracle 12c "in-Memory Databases".	
50°C	What is jQuery? Explain its features.	
l,	Discuss the concept of Disk Economics.	
	Explain the jQuery DOM Filter Methods.	
	Write a short note on jQuery Event Handling.	
	Attempt any three of the following:	15
	Explain JSON data types.	
	Discuss JSON schema with validation libraries.	
9/2/	Differentiate between JSON and XML.	
1.	How do we do encoding and decoding JSON in Python?	
	What is JSON Grammar? Explain.	
	Write a short note on Persisting JSON.	
V. S	\(\times \times \) \(\times \times \times \) \(\times \times \times \times \) \(\times \tin \times \times \times \times \times \times \times \times \times	

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Page 1 of 1

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