

Enrollment No:- _____

Exam Seat No:- _____

C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 5TE02BDA1

Subject Name: Big Data and Analytics

Course Name: M.Tech (CE)

Date: 20/5/2015

Semester: II

Marks: 70

Time: 02:30 TO 05:30

Instructions:

- 1) Attempt all Questions in same answer book/Supplementary.
 - 2) Use of Programmable calculator & any other electronic instrument prohibited.
 - 3) Instructions written on main answer book are strictly to be obeyed.
 - 4) Draw neat diagrams & figures (if necessary) at right places.
 - 5) Assume suitable & perfect data if needed.
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SECTION-I

Q-1 Attempt following Questions.

- | | | |
|----|---|---|
| a) | What Big Data is and why it is important? | 2 |
| b) | Explain three Vs of Data. | 2 |
| c) | What is Data Blending & its purpose? | 2 |
| d) | Is name node also a Commodity? | 1 |

- | | | |
|--------|--|---|
| Q-2 a) | Explain the impact of cloud computing on Big Data? | 5 |
| b) | Discuss Blending Data from Multiple Sources. | 5 |
| c) | Describe the Role of the Data Analyst? | 4 |

OR

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|--------|---|---|
| Q-2 a) | What are the benefits of Combining Big Data with Spatial Data? | 5 |
| b) | What are the challenges faced by early generations technology using predictive analytics. | 5 |
| c) | Justify Putting Big Data in the Hands of Those Who Need It? | 4 |

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|--------|---|---|
| Q-3 a) | Explain Humanizing Big Data Analytics Workflow in detail. | 7 |
| b) | What is Hadoop Map Reduce? How Hadoop Map Reduce works? | 7 |

OR

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|--------|---|---|
| Q-3 a) | Why predictive analytics is important on Big Data? | 7 |
| b) | Define Consumerization? How Consumerization of Big Data Analytics brings the power of Big Data into the hands of business users in the workplace? | 7 |

SECTION-II

Q-4 Attempt following Questions.

- | | | |
|----|---|---|
| a) | What are the main components of Map reduce Job. | 2 |
| b) | Explain what is shuffling in Map Reduce? | 2 |

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20-5

- c) How to start all Hadoop daemons at a time. 2
- d) What is Hadoop Streaming? 1
- Q-5 a) Explain what is Job Tracker in Hadoop? What are the actions followed by Hadoop? 5
- b) Explain what is Speculative Execution? 5
- c) How to increase Real Business Value from Predictive Analysis. 4
- OR**
- Q-5 a) List out Key Features of Map Reduce. 5
- b) What are the main Components in Hadoop Architecture? 5
- c) What are the design principles for humanizing Big Data? 4
- Q-6 a) Explain Visual Data Analysis and Interaction Techniques in Details. 7
- b) Explain Apache Hive & MapR Framework in Details. 7
- OR**
- Q-6 a) Explain HDLC Architecture in Details. 7
- b) Explain Apache Pig & Amazon S3 Framework in Details. 7

