

M. Tech. –III (Computer Engineering) (CBCS – 2015 Course) :

SUMMER - 2019

SUBJECT : ELECTIVE – I d) BIG DATA ANALYTICS

Day : Friday
Date : 17/05/2019

S-2019-3450

Time : 11.00 AM TO 02.00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Answer to both the sections should be written in **SAME** Answer book.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION - I

- Q.1** State and define the different V's of Big data. Site two example of Big Data case studies and indicate which V's get satisfied in these case studies. **(10)**

OR

Compare and Contrast the traditional IT analytics approach and the Big Data Analytics.

- Q.2** Compare and contrast the Traditional RDBMS, NoSQL and Hadoop platform for Big Data. **(10)**

OR

Explain in detail the MangoDB design goals.

- Q.3** Explain in brief the different types of Regression models. **(10)**

OR

The average value per square feet of a new house is Rs 5000/- and the average lot sells for Rs. 50 lakh. What is the predicted selling price of house 'X'? Define a probabilistic model for computing actual selling price and perform simple regression.

SECTION - II

- Q.4** Describe the Unigram Language Model in the context of Information Retrieval estimating the probability that a document 'd' generates a query 'q'. **(10)**

OR

Discuss using a diagram the Big Data Stream Analytics for Online Sentiment Analysis.

- Q.5** Explain the different algorithms used for handling large Data sets in Main memory **(10)**

OR

Elaborate and contrast the different Frequent pattern based clustering methods.

- Q.6** Explain and elaborate the components of Hadoop Ecosystem. **(10)**

OR

Describe analytics using Statistical package approach towards modelling. **(10)**

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