

**M. Tech. –III (Computer Engineering) (CBCS – 2015 Course) :  
WINTER - 2018**

**SUBJECT : ELECTIVE – I d) BIG DATA ANALYTICS**

Day : Tuesday  
Date : 04/12/2018

**W-2018-3185**

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

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Answers to both the sections should be written in **SEPARATE** answer books.
  - 3) Figures to the right indicate **FULL** marks.
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**SECTION - I**

**Q.1** Explain the Big data workflow for data intensive Environments. (10)

**OR**

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

**Q.2** A client need to maintain database design for a Fitness blog website. List the RDBMS scheme for the design of comment, post and tag list. Write the Structure of Collection in MangoDB schema. (10)

**OR**

Explain in detail the MangoDB design goals and working of its shell.

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

**OR**

Explain in brief the Time series analysis in Big Data.

**SECTION - II**

**Q.4** Explain the abstract architecture of Data Stream Management System (DSMS). (10)

**OR**

Explain in details the use of Aggregation in Data Reduction Technique.

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

**OR**

Explain the process to merge buckets in k-mean algorithm.

**Q.6** Explain the different NoSQL data architecture pattern. (10)

**OR**

State the different Visual Data Analysis Techniques. Explain in detail any one technique. (10)

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