Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

IT-8003 (2) (CBGS)

B.E. VIII Semester

Examination, May 2019

Choice Based Grading System (CBGS)

Data Science

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

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- ii) All questions carry equal marks.
- a) What is Big data? Describe the main features of a data analytical system.
 - b) What is Data Science? Also, list the differences between supervised and unsupervised learning.
- 2. a) Describe in detail about the role of statistical models in Big Data.
 - b) What do you understand by the term Normal Distribution?
- a) Explain the architecture of Hive and how it is useful for data analysis.
 - b) What is Hadoop? Explain its infrastructure and HDFS concept.
- 4. a) Explain Naive Bays classifier with example.
 - b) Differentiate Hadoop vs distributed database.

IT-8003(2) (CBGS)

118

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- a) Show how would you use the sampling distribution and re-sampling
 - b) Explain core components of analytical data architecture.
- 6. a) Explain data manipulation and statistical analysis with R.
 - Explain data types used in R and loops and conditional statements. http://www.rgpvonline.com
- a) What is parallel and distributed processing? Explain with example.
 - Explain the basic building blocks of Hadoop with a neat sketch.
- 8. Write short notes
 - i) Structured and Unstructured Data
 - ii) K-Means clustering
 - iii) Arrays and Matrices



IT-8003(2) (CBGS)

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