Roll No

IT-8003(2)-CBGS B.E. VIII Semester

Examination, December 2020

Choice Based Grading System (CBGS) Data Science

Time: Three Hours

Maximum Marks: 70

- *Note:* i) Attempt any five questions.
 - ii) All questions carry equal marks.
- 1. Explain the following:
 - i) Naive bayes classifier
 - ii) Evolution of data management
- 2. a) Define Big data. Explain Big data management architecture.
 - b) Define Structured Data. Explain sources of big structured data.
- 3. a) Explain Linear regression with Non linear substitution.
 - b) Explain Linear Correlation with suitable example.
- 4. a) Write the differences between Parallel vs Distributed Processing.
 - b) Explain Life cycle of Data analytics.

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- 5. a) Explain the architecture of Hive and how it is useful for data analysis.
 - b) What is Hadoop? Explain its infrastructure and HDFS concept.
- 6. a) Explain data manipulation and statistical analysis with R.
 - b) Explain data types used in R and loops and conditional statements.
- 7. a) Show how would you use the sampling distribution and re-sampling
 - b) Explain core components of analytical data architecture.
- 8. Write short notes on any two:
 - i) Unstructured Data
 - ii) K-Means clustering
 - iii) Arrays and Matrices
