PART B

1. What is Data Science process? Explain

2.Differentiate Business Intelligence (BI) and Data Science.

3.Compare Data Science and Statistics

4.Define Data Science.

5.What is Data Science process? Explain.

6.Define the following terms:

a. Data Cleaning b. Dimensionality Reduction c. Data Transformation d. Feature Engineering

e. Feature Selection

7.What is regression? What is its use?

8. Describe life cycle of Data Science with neat diagram

9.Write a short note on information distillation.

10. What is classification. Define the following types of classification:

a) Content-based classification b) User-based classification c) Context-based classification.

11. Explain matrices with respect to Data Science.

12. Explain statistics and single set of Data.

13. Write a short note on Time Series Analysis

14.Write a short note on Predictive Analytics.

15.What is classification. Define the following types of classification:

1.Content-based classification 2. User-based classification 3. Context-based classification.

16. What is text Summarization? Explain the two types of summarizations.

17.Write a short note on Sentiment Analysis

18.Write a short note on Predictive Analytics

19.What is Fuzzy Logic? What is the concept behind it?

20.Explain the following with suitable example. 1.Simple Linear Regression. ii.Multiple Regression. 21.Write a short note on Named Entity Recognition.

22. What is Reasoning Al? List the types of Reasoning Al

23.List the differences between NoSQL and SQL.

24.Write a short note on CouchDB.

25.Write a short note on Casandra. A

26. What are keyword-recognition based chatbots? Elaborate.

27.Write a short note on Aspect Mining.

28. What are chatbots? Elaborate

29.What is the significance of Linguistic-based chatbots? Explain

30. Illustrate Matplotlib with an example.

PART C

1.Evaluate the various formats of data and illustrate with a real time examples.

2.Explain the following types of Reasoning Al:

a. Deductive reasoning b. Inductive Reasoning c. Abductive reasoning d. Common Sense Reasoning

3. Develop a routine to demonstrate Binomial Distribution and Normal Distribution.

4.Explain the following types of chatbots a. Menu/button-based chatbots b. Linguistic Based (Rule-Based Chatbots) c. Keyword recognition-based chatbots d. Machine Learning chatbots e. Voice bots

5. Assess the difference between variance and covariance. Show a data set of values and demonstrate its correlation

6.Explain in detail the following terms:

a. Hbase b. Hive

7.Create your own three-dimensional data and classify them using Support Vector Machine

8. Explain in detail the following terms: a. MongoDB b. Neo4j

9.Evaluate random trees and explain random forest.

10.Develop a line chart to visualize a data set of your choice and give the detailed explanation of observations from chart.

12.Explain a various method of Scraping the web in detail.

13. Develop a case study of Sentiment Analysis in Twitter.

14. Describe the following I. Image Classification. ii.Object Localization

15. Construct a decision tree for sample data of your own and evaluate various decision that can be arrived based on the decision tree