

6TH SEM. /COMPUTER SCIENCE & ENGINEERING./ 2023(S)

TH - 4 Data Science & Analytics

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1. Answer **All** questions 2 x 10
 - a. Who is a data scientist?
 - b. Differentiate between Business Intelligence (BI) and Data Science.
 - c. What is the role of encoding in data visualization?
 - d. List the various library used in Python programming.
 - e. What is the central value for 3 and 7 & 8?
 - f. Define data lake.
 - g. What do you mean by importing data.
 - h. What do you mean by Central tendency?
 - i. Name the analysis techniques used in data science.
 - j. Define Bokeh.
2. Answer **Any Six** Questions 6 x 5
 - a. Explain the different operator used in Python programming.
 - b. Explain about the frequency distribution with example.
 - c. Classify the different types of data used in data science.
 - d. Write the responsibilities of data analyst.
 - e. Discuss about storage management.
 - f. What are different method used in data visualization.
 - g. Discuss the Future Progress of Big Data Visualisation.
3. Describe the functions of data warehousing tools with diagram. 10
4. Discuss different types of statistical data. 10
5. Explain the various terminology related with data science. 10
6. Discuss about the data visualization method. 10
7. Describe about different data analysis techniques in data science. 10