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6th Sem./ CSE / 2022(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. Differentiate between data science & data analysis.
 - b. Name the popular toolkits used in data science.
 - c. What do you mean by Bokeh?
 - d. What are the different data types used in python programming?
 - e. Define data visualization.
 - f. Define metadata.
 - g. What is R programming ?
 - h. What is data lake?
 - i. Why SPSS is important?
 - j. How to measure the central tendency?
2. Answer **Any Six** Questions 6 x 5
 - a. Explain the different methods of data repository.
 - b. Describe the different types of data used in data science process.
 - c. Explain the salient features of data visualization.
 - d. State and explain the types of statistical data.
 - e. Discuss about the data collection method.
 - f. Explain about the normal distribution curve.
 - g. Illustrate the different analysis techniques used in data science.
3. How data science process works? Explain in detail. 10
4. Discuss the different methods used in data visualization? 10
5. Explain the application of data science technologies for visualization. 10
6. Describe the challenges of Big data visualization. 10
7. How data can be explore & import using 1BM SPSS? Explain. 10

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

TH - 4 Data Science & Analytics

Full Marks: 80

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Answer any five Questions including Q No.1& 2
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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