**Short answer type questions**

1. What is the relationship between Data Science and Computer Science?
2. What is the difference between structured and unstructured data?
3. How Data and information are related? Explain with an example.
4. What is Data Science? Mention two fields where Data Science is applied.
5. Mention few challenges with unstructured data?
6. Define Data Transformation and Write different processes that are used for Data Transformation.
7. Explain the relationship between Data Analysis and Data Analytics with an example.
8. What are the different types of Sampling methods. Explain each with an example.

**Long answer type questions**

1. Explain the role of Data Science in different other fields.
2. Define Computational thinking. Explain the different stages of it with a neat diagram.
3. Explain the measures of centrality with examples.
4. What is an attribute. Explain different types of attributes with an example.
5. Explain Descriptive Analysis and Exploratory Analysis.
6. Write a short note on normal distribution, exponential distribution, binomial distribution
7. What is Data Pre-processing and explain different forms of Data Pre-processing.
8. Explain t-Test, Z-Test and ANOVA with an example.
9. Explain different measures of Dispersion each with an example.
10. Define covariance and correlation and explain Pearson’s correlation coefficient.