

- b) Describe how Data Visualization can be done through Spreadsheet ¹³ K² CO4 using Pivot Tables and Charts.
- 14. a) Explain about Data Munging in detail. 13 K2 CO5

OR

- b) What is the Need for Data Visualization? Make use of various ¹³ K2 CO5 visualization tools.
- 15. a) Explain the different phases of CRISP and SEMMA Methodology. 13 K2 CO6

OR

b) Define Data Privacy and why it is important in data science? Examine ¹³ K2 CO6 how data privacy is managed and preserved in data science?

PART - C (1 × 15 = 15 Marks)

16. a) Distinguish different data types mentioned in data science and explain 15 K4 CO2 the four levels of data.

OR

b) Examine the life cycle of big data with neat diagram. 15 K4 CO2