MAY 2025 **P/ID 78016/RMBB1**

Time : Three hours Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions in 50 words each.

1. Define Big Data.
2. State any two characteristics of Big Data.
3. What is structured data?
4. Define semi-structured data.
5. How will you define Business Intelligence?
6. Mention the role of Web 2.0 in Big Data growth.
7. What is a pivot table in Excel?
8. Define linear regression.
9. What is time series analysis?
10. Define Hadoop.
11. What is HDFS?
12. List any two uses of analytics in HR.

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions in 250 words each.

13. Explain the evolution of Big Data and data deluge.

14. Discuss the differences between structured, unstructured, and semi-structured data.

15. Explain the features and benefits of Business Intelligence.

16. Illustrate the use of Excel for data visualization and summary statistics.

17. Analyze the steps involved in building a regression model using Excel.

18. Describe the steps required to create a histogram in Excel using a given dataset.

19. Outline the basics of forecasting using time series data.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions in 500 words each.

20. Elaborate on the importance of Big Data Analytics in business decision-making.

21. Describe Hadoop ecosystem tools used for analytics.

22. Compare Big Data Analytics and Business Intelligence with examples.

23. Discuss predictive analytics techniques used in HR and finance.

24. Using Excel, explain in detail how you would:

    (a) Sort a large dataset

    (b) Create a Pivot Table

    (c) Generate a summary report showing totals and averages. Illustrate the steps with a suitable example.

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