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V Semester B.C.A. Degree Examination, February/March - 2024

COMPUTER SCIENCE

Data Analytics (Theory)

(NEP 2021 Scheme)

Paper : CA-C22T

Time : 2½ Hours

Maximum Marks : 60

*Instructions to Candidates:*

Answer All Parts.

## PART - A

Answer any **Four** questions. Each question carries **2** marks.

(4×2=8)

1. What is predictive analytics?
2. Give the classification data with an example.
3. What is the sample space in probability?
4. What is Z-test in hypothesis testing?
5. Why should we use power BI?
6. What is multivariate analysis?

## PART - B

Answer any **Four** questions. Each questions carries **5** marks.

(4×5=20)

7. Explain modern data analytics tools in details.
8. Differentiate between predictive analytics and prescriptive analytics.
9. Explain hypothesis testing in detail.
10. Prove Baye's theorem.
11. Describe the components of microsoft's power BI.
12. Write a note on applications of analytics.

[P.T.O.]



## PART - C

Write any Four questions. Each question carries 8 marks.

(4×8=32)

13. Explain the various phases of data analytics life cycle. (8)
  14. a. Explain in detail about descriptive analytics. (4+4)  
b. Write a note on text analytics and web analytics.
  15. Explain types of correlation coefficient with an example. (8)
  16. Explain the data visualization techniques with an example in details. (8)
  17. Demonstrate prepare the data for visualization with any one illustration? (8)
  18. Write a case study on COVID - 19 business scenarios with an example. (8)
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