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V Semester B.C.A. Degree Examination, January/February- 2025

COMPUTER SCIENCE

Data Analytics

(NEP F+R Scheme)

Time : 2½ Hours

Instructions to Candidates:

Answer all Sections.



Maximum Marks : 60

SECTION - A

- I. Answer any **Four** questions. Each question carries **Two** marks. (4×2=8)
1. Mention any two goals of Data Analytics.
 2. What is Prescriptive Analytics.
 3. Define the term: Mutually exclusive.
 4. What is linear correlation?
 5. What is power BI service?
 6. Define case study.

SECTION - B

- II. Answer any **Four** questions. Each question carries **Five** marks. (4×5=20)
7. Explain Data Analytics tools in details.
 8. Explain the process of text analytics.
 9. In a Binomial distribution Mean = 6 and Variance = 1.5 . Find a) $P(x = 2)$
b) $P(x \leq 2)$.
 10. Distinguish between correlation and regression.

[P.T.O.]



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11. Explain the types of case study with example.
12. What is Power Query? Explain the features of Power Query.

SECTION - C

III. Answer any Four questions. Each question carries Eight marks. (4×8=32)

13. Explain the features of web analytics and its key components.
14. What is Hypothesis Testing? Explain various types of Hypothesis testing.
15. Calculate correlation coefficient using Karl Pearson's method.

x 1 2 3 4 5

y 10 9 8 7 6

16. Define Regression. Explain the different types of Regression with suitable examples.
 17. Explain different types of charts in power BI.
 18. Write a case study on how netflix applies data analytics for content recommendations and personalization.
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