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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****Maximum Marks : 60****Instructions to Candidates:**

Answer all Sections.

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.]



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.