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V – 5538

Reg. No. :

Name :

Fourth Semester M.A. Degree Examination, June 2025

Behavioural Economics and Data Science

BEDS 543 : FOUNDATIONS OF DATA ANALYSIS USING R AND PYTHON

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

PART – I

Answer **all** questions, each carries 1 mark.

1. Data Science Methodology
2. Prediction
3. Classification
4. Python
5. Data Input/Output
6. R Studio
7. Packages in R
8. Univariate analysis
9. Model evaluation
10. Specificity measure.

(10 × 1 = 10 Marks)

P.T.O.



PART – II

Answer any **seven** questions, each carries **5** marks.

11. What role does Association play in Data Science and how is it utilized?
12. Describe the tasks performed in Data Science.
13. Explain the process of executing commands in Python using the interpreter.
14. Describe how and from where to get data into Python.
15. Examine the Basics of Coding in R.
16. Explain the concept of variable scope in R.
17. What is meant by Exploratory Data Analysis? Discuss.
18. Differentiate between simple and multiple regression modelling.
19. Discuss the commonly used metrics for evaluating regression models.
20. What is meant by logistic regression? Discuss its features.

(7 × 5 = 35 Marks)

PART – III

Answer any **three** questions. Each question carries **10** marks.

21. Discuss the challenges associated with Data Science projects and how they can be addressed.
22. Describe the importance of comments in Python code. Explain how comments enhance code readability and maintainability.



23. Explain the significance of using comments in R and describe the process of executing commands in R.
24. What is meant by Histograms with response overlay? How to construct it using R?
25. How to perform multiple regression modelling using R? Explain.

(3 × 10 = 30 Marks)

