

D 51838

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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Econometrics and Data Management

CSC 3 (4) C07—PYTHON AND R PROGRAMMING

(2020—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type)

All questions can be answered.

Each question carries 2 marks.

(Ceiling 20 marks)

1. Define a Variable.
2. What is an Operator ?
3. What is the role of control statements ?
4. What is Recursion ?
5. What is Generalization ?
6. What is an Argument ?
7. What is a List ?
8. What is an Object ?
9. What is Workspace ?
10. What is statistical hypothesis ?
11. What is JSON ?
12. What is Transpose ?

Turn over

Section B (Paragraph / Problem Type)

All questions can be answered.

Each question carries 5 marks.

(Ceiling 30 marks)

13. Explain one sample t test.
14. Explain Kruskal Wallis Simple Correlation.
15. Explain vector in R.
16. Explain user defined functions.
17. Explain the mathematical functions in Python.
18. Explain universal functions.
19. Explain one way ANOVA.

Section C (Essay Type)

*Answer any **one** of the following questions.*

The question carries 10 marks.

20. Explain in detail about different Parametric and non-parametric tests.
21. Explain Exception handling in Python.

(1 × 10 = 10 marks)