M A DEGREE (CSS) EXAMINATION , APRIL 2024

Second Semester

MA DEVELOPMENT ECONOMICS

CORE - DE010205 - QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS

2020 Admission Onwards

F16EA32D

Time: 3 Hours   Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain Discreate Probability Distribution.

2. Define Variance.

3. Explain descriptive and inferential statistics.

4. What is Standard error?

5. Define Unbiasedness property of an estimator.

6. Define Parameter.

7. What is Alternative hypothesis?

8. What is U test in statistics?

9. What is Diagnostic research design.?

10. Explain Case Study research design.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Between the hours 2 pm and 4 pm, the average number of phone calls per minute coming into the switch board of a company is 2.35. Find the probability that during one particular minute, there will be atmost two phone calls .given e–2.35=0.095374

12. Define Normal distribution and state its properties.

13. What is Cluster sampling? Mention its advantages and disadvantages.

14. Distinguish between simple random sample and stratified random sampling.

15. Explain the concept of log likelihood.

16. Write a note on Interval Estimation.

17. Distinguish between Type I Error and Type II Error.

18. What is the difference and similarities of qualitative and quantitative research?

<div align="right">(6×2=12 weightage)</div>

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Two cards are selected at random from a box which contains five cards numbered 1,1, 2, 2 and 3.Let X denotes the sum of the numbers. Find the expected value of the sum.

20. Describe chi square distribution along with its underlying assumptions. State its properties and applications.

21. Explain the various parametric tests.

22. What is Research Report ? Explain diifferent steps and layout of writing report.

<div align="right">(2×5=10 weightage)</div>