Reg. No:	
Name:	

Integrated M A Programme In Social Sciences (C.S.S.) EXAMINATION, MARCH 2025

2020 Admissions Supplementary

SEMESTER VII- CORE COURSE (ECONOMICS)

EC07C31IM20 - Advanced Quantitative Methods in Economics

Time: 3 Hours

Maximum Weight: 30

Part A

(8x1=8)

I Answer any eight questions. Each question carries 1 weight

- 1. Describe discrete distribution.
- 2. Describe binomial distribution.
- 3. Define population.
- 4. Explain what is probability sampling.
- 5. Explain point estimation
- 6. Explain interval estimation
- 7. Define hypothesis
- 8. Define null hypothesis
- 9. Define parametric test
- 10. Explain what is Kendall's coefficient of concordance.

Part B

(6x2=12)

II Answer any six questions Each question carries 2 weight

- 11. Difference between discrete distribution and continuous distribution
- 12. List the properties of normal distribution
- 13. Difference between probability and non-probability sampling.
- 14. Difference between population and sampling.
- 15. Write the properties of a good estimator
- 16. Difference between point estimation and interval estimation
- 17. Difference between null hypothesis and alternative hypothesis
- 18. Difference between parametric test and non-parametric test.

III Answer any two questions. Each question carries 5 weight

- 19. Define sampling. Explain the two methods of sampling.
- 20. Define estimation. Explain the two methods of estimation.
- 21. (i) Write the properties of normal distribution
 - (ii) Write the steps for the χ 2 test for testing the goodness of fir.
 - (iii) Write the steps of testing independence of two attributes.
- 22. The data below are the number of hours per week of 15 students. At the 0.05 level of significance, test the claim that the median work hours are more than 12 hours per week. Perform one sample sign test. (table value=3)

18 16 15 13 9 15 13 11 15 18 10 14 20 14 1	18 16	15 13	9 15	13 11 15	18 10	14 20	0 14 12
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