

23U446

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Name :

Reg. No :

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025

(CBCSS-UG)

(Regular/Supplementary/Improvement)

CC19U STA4 C02 - STATISTICAL TECHNIQUES FOR PSYCHOLOGY

(Statistics - Complementary Course)

(2019 Admission onwards)

Time: 2 Hours

Maximum: 60 Marks

Credit: 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. What do you mean by Analysis of Variance.

2. Fill in the blanks.

Source	s.s	d.f	m.s.s
Error	100	-----	
Row	-----	3	
Column	50	4	
Error	500	-----	-----

3. Define attribute.

4. How do you carry out your inferences in Wilcoxon's signed rank test?

5. How do you carry out your inferences in run test?

6. Write down the test statistic for Kruskal-Wallis test?

7. State any advantages of factorial experiment over a simple experiment.

8. For a factorial design, $r = 4$. Find the degrees of freedom of error sum of square.

9. Give any example of factorial designs.

10. What is z-score?

11. What is split-half method of reliability?

12. What is Face validity?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. What is the test statistic and distribution of the statistic in a sign test?
14. What are the uses of Chi-Square tests?
15. Explain the test procedure for one sample sign test.
16. Explain the test procedure in case of large sample sign test.
17. Explain the test procedure for two sample Wilcoxon signed test.
18. Explain 2^2 factorial design.
19. Explain various scales of measurement.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Perform analysis of variance:

Plot 1 : 20 18 30 32 35 37 19
Plot 2 : 24 22 26 28 30 32 28 26
Plot 3 : 28 20 27 19 29 35 30 23 27 32

21. Use Chi-Square test to examine whether A and B are associated

	A1	A2	A3	Total
B1	40	25	15	80
B2	11	26	8	45
B3	9	9	7	25
Total	60	60	30	150

(1 × 10 = 10 Marks)
