21U431S (Pages: 2) Name: …….

Reg. No: …….

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(CUCBCSS-UG)

CC15U PSY4 C02 – PSYCHOLOGICAL STATISTICS – IV

(Statistics – Complementary Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours Maximum: 80 Marks

Part A

Answer ***all*** questions. Each question carries 1 mark.

A. Objective type Questions

1. The Scale used to rank objects based on certain characteristic is……

   a) Nominal Scale b) Ordinal Scale c) Interval Scale d) Ratio Scale

2. For a 2×2 contingency table, the degrees of freedom is

   a) 2 b) 4 c) 8 d) 1

3. Reliability means

   a) Consistency b) Efficiency c) Sufficiency d) None of these

4. Kruskal -Wallis test is also known as

   a) U- test b) Z-test c) H-test d) t-test

5. Test for randomness is

   a) Run test b) Sign test c) U-test d) Wilcoxon test

B. Fill in the blanks:

6. Sign test is a ……..…. test.
7. Validity means ……..….
8. Test statistic used in H test is ……..….
9. ANOVA is used to test the equality of ……..….
10. ……..…. is a parametric test.

(10 × 1 = 10 Marks)

Part B

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

11. Define Run.
12. Define critical difference.
13. What is Chi-Square test?
14. What is parametric tests?
15. What do you mean by Validity?

16. State the assumptions of ANOVA.

17. What is c- score?

18. What is content validity?

19. What is nominal scales of measurement?

20. Explain Wilcoxons matched pair test.

(10 × 2 = 20 Marks)

Part C

Answer any ***six*** questions. Each question carries 5 marks

21. What is Z-Score and Stanine Score?

22. Explain about logistic regression.

23. Discuss the uses of Chi-square test of independence.

24. Explain Kruskal-Wallis test.

25. What do you mean by reliability? Explain various types of reliability.

26. Explain Sign test. State its limitations.

27. What are the advantages and disadvantages of non -parametric methods?

28. Complete the following ANOVA table and draw your conclusions.

Source	df	Sum of squares	Mean sum of squares	F ratio
Treatment	2	12.5	….	2.6
Error	….	21.5	….	
Total	11	….		

(6 × 5 = 30 Marks)

Part D (Essay Questions)

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

29. Explain Chi-Square test of Goodness of fit.

30. Discuss the steps involved in the construction of questionnaire.

31. What is ANOVA? Explain one way classification of ANOVA.

32. What is a non-parametric test? Explain any one non- parametric test.

(2 × 10 = 20 Marks)

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