

18U426

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Name:

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

CC15U PSY4 C02 - PSYCHOLOGICAL STATISTICS IV

(Psychology - Complementary Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Part A

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

A. Choose the correct Answer:

1. Which of the following is a method of estimating goodness of fit
a. scatter diagram b. regression c. chi square test d. spearman rank order
2. The test used to judge the randomness of samples is _____
a. H test b. U test c. run test d. sign test
3. ANOVA is used to test the significant difference between _____
a. variance b. mean c. standard deviation d. mode
4. Which of the following is not a non-parametric test?
a. Wilcoxon test b. run test c. Kruskal Wallis test d. ANOVA
5. Most of the nonparametric methods utilize measurements on _____
a. interval scale b. ratio scale c. nominal scale d. ordinal scale

B. Fill in the blanks:

6. The test statistic of chi square test of variance is _____
7. Fisher's exact test is using for _____
8. Validity means _____
9. The test statistic used in ANOVA is _____
10. Kruskal Wallis test is used to test _____

(10 x 1 = 10 Marks)

Part B

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

11. Define ANOVA
12. What is kruskal wallis test?
13. What is non-parametric test?
14. What is validity?
15. What is chi square test of homogeneity?
16. Assumptions of ANOVA
17. What are the merits of non-parametric test?
18. What is sign test?

19. What is run test?
20. What is questionnaire?

(10 x 2 = 20 Marks)

Part C

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

21. Following is the arrangement of Men (M) and Women (W) test for randomness M W M
W M M M W M W M M M W W M M M M W W M W M M M W M M M W W W M
W M M M W M W M M M M W W M
22. Write a note on logistic regression.
23. Write the procedure for one way analysis of variance.
24. Explain different types of validity.
25. From the following data test whether inoculation is effective in preventing tuberculosis

	Attacked	Not attacked
Inoculated	31	469
Non inoculated	185	1315

26. What is critical difference?
27. Write about different types of scales of measurements
28. Write a note on sign test

(6 x 5 = 30 Marks)

Part D

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

29. Discuss the steps involved in the construction of questionnaire.
30. Define reliability. Explain different methods in reliability
31. What is chi square test? Explain different uses of chi square test
32. The following data present the number of units of production per day turned out by 5 different workers using 4 different types of machines

	Machine type			
Workers	A	B	C	D
1	44	38	50	30
2	44	38	53	41
3	36	34	45	33
4	42	35	45	30
5	38	40	45	37

- a) Test whether the mean productivity is the same for the different machine types.
- b) Test whether the 5 men differ with respect to mean productivity.

(2 x 10 = 20 Marks)
