COURSE : MAJOR - CORE
PAPER : STATISTICS FOR PSYCHOLOGY II
TIME : 3 HOURS   MAX. MARKS: 100

SECTION – A

ANSWER ALL QUESTIONS IN ABOUT 50 WORDS EACH: **(10 X2 = 20)**
1. What is statistical inference?
2. Define sample.
3. What is variance?
4. What do you mean by level of significance?
5. What is standard error?
6. What are two-tailed and one – tailed testes?
7. What is non-parametric statistics?
8. Mention the uses of Chi-square test.
9. Give the regression equation of Y-variable on X-variable.
10. What is a multiple regression equation?

SECTION – B

ANSWER ANY FIVE QUESTIONS IN ABOUT 250 WORDS EACH: **(5 X 8= 40)**
11. Bring out the different types of hypothesis with suitable example.
12. Write a note on test of significance.
13. On a test administered to a random sample of 8 students of section A and 7 students of section B, the following are the scores obtained:
    Section A   17   15   13   13   10   9   7   5
    Section B   15   9   8   7   5   5   13
    Find out whether the difference between the two groups are significant at 0.05 level?

14.   First Trial   Tenth Trial
    N   25   25
    Mean   80   84
    SD   8   10
    r = 0.40
        Is the gain in the score significant?

15.   Men   Women
    N   145   82
    SD   6.2   7.4
    Mean   32   36
    Find out whether there is significant difference between the two means.

16. Bring out the conditions under which parametric and non-parametric tests should be used.
17. Trace out the procedure for Mann-whitney U test with an eample.
18. Bring out the properties of regression coefficient.

SECTION – C

ANSWER ANY TWO QUESTIONS IN ABOUT 1000 WORDS EACH: (2 X 20= 40)

19. How do we test a hypothesis? Explain with an example.
20. Discuss the procedure for the calculation of ANOVA.
21. The responses of three religious groups on an attitude scale are:

	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree	Total
Hindu	12	18	4	8	12	54
Muslim	48	22	10	8	10	98
Christian	10	4	12	10	12	48
Total	70	44	26	26	34	200

Do the data indicate that the opinion expressed are independent of the kind of religion they belong.
22. Illustrate the steps to formulate a multiple regression equation

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