STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086
(For Candidates admitted during the academic year 2016 – 2017 & thereafter)

SUBJECT CODE: 16PY/MC/ST45

B.Sc. DEGREE EXAMINATION APRIL 2019
PSYCHOLOGY
FOURTH SEMESTER

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 inferential statistics?
2. Mention the different types of hypothesis.
3. What is parametric test?
4. What is ANOVA?
5. What is variance?
6. Give the formula for product moment correlation.
7. Mention the uses of chi square test.
8. What is non-parametric test?
9. What is regression?
10. Give the regression equation for Y variable on X variable.

SECTION – B

ANSWER ANY FIVE QUESTIONS IN ABOUT 250 WORDS EACH: (5 X 8= 40)

11. Briefly explain the two types of errors in testing of hypothesis and how to reduce those errors.
12. Write a short notes on 'F' test.
13. Write short notes on (i) Level of significance
    (ii) Two tailed and one tailed tests.
14. Bring out the procedure for Mann Whitney U test.
15. Bring out the properties of regression coefficient.
16. Explain the two types of estimation in brief.
17. Following are the Pre and Post test scores of a group of subjects on an attitude scale:

X	17	21	21	29	25	21	21	23	11	19	21
Y	25	19	25	25	31	23	25	19	199	25	

    Test the null hypothesis at 0.01 level
18. Find the two regression equations for the following data:
    X = 2, 3. 6, 4, 5, 4
    Y = 1, 3, 4, 2, 5, 3

..2

SECTION – C

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

19. Describe the procedure of testing hypothesis.
20. Three group of students, each consisting of seven were given training through three different techniques obtained the following scores on a performance test:

Group I	Group II	Group III
3	5	6
5	6	6
3	4	6
1	5	2
7	10	8
3	6	4
6	6	7

Test the difference between groups through analysis of variance.

21. Describe the concept of standard error and its utility.
22. Illustrate the procedure for computing chi square with an hypothetical example.

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