BSc DEGREE EXAMINATION MAY 2018

(Third Semester)

Branch – **PSYCHOLOGY**

PSYCHOLOGICAL STATISTICS – II

Time : Three Hours Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

1 Hypothesis.
2 Type 1 Error.
3 T-test.
4 Principle of randomization.
5 Anova.
6 Reliability.
7 Content validity.
8 Sample.
9 Sign test.
10 Median test.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Explain the types of Hypothesis.

OR

b Explain Type I and Type II Error.

12 a Find the value of 't' for the following scores.

Scores x	10	15	9	3	7	12	16	17	4
Scores y	12	17	8	5	6	11	18	20	3

OR

b Explain the meaning of Correlation.

13 a Explain the interpretations of a coefficient of correlation?

OR

b Discuss the purpose of ANOVA.

14 a Construct a scatter diagram for the following scores.

Scores for A	13	12	10	8	7	6	6	4	3	1
Scores for B	7	11	3	7	2	12	6	2	9	6

OR

b Differentiate between parametric and non-parametric hypothesis test.

15 a Calculate the median test for the following scores
17,47,15,35,25,39,50,44,7,10,8,12,9,11,6,7

OR

b Explain Test-retest method.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Computation of coefficient of correlation by using rank differences method for the following scores.

Score in test X	12	15	24	50	8	15	20	20	11	26
Score in test Y	21	25	35	24	16	18	25	16	16	38

17 Ten subjects were tested on an attitude scale. They were made to read some literature in order to bring a change in their attitudes. The attitude scale was re-administered. The results of initial and final testing are as under.

Initial	10	9	9	8	8	7	7	5	4	4
Final	11	7	8	9	6	6	8	4	3	4

Test the null hypothesis at the 5% level of significance.

18 When to use Parametric and non-parametric tests.

19 Explain the criteria for good measurement.

20 Write a brief introduction to software package of statistic.