BSc DEGREE EXAMINATION MAY 2018

(Third Semester)

Branch – **PSYCHOLOGY**

PSYCHOLOGICAL STATISTICS - 1

Time : Three Hours

SECTION-A (20 Marks)

Maximum : 75 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 $(5 \times 5 = 25)$

11 a Explain the types of Hypothesis.

OR

- Explain Type I and Type II Error. b
- 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.

- Explain the interpretations of a coefficient of correlation? 13 а
 - OR Discuss the purpose of ANOVA. b
- 14 Construct a scatter diagram for the following scores. а

	6					6				
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								

Differentiate between parametric and non-parametric hypothesis test. b

- ·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 $(3 \times 10 = 30)$

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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

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 readministered. The results of initial and final testing are as under.

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

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