PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch- **PSYCHOLOGY**

PSYCHOLOGICAL STATISTICS - II

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks!
Answer **ALL** questions

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

1   What is type I error?
2   Mention the meaning of hypothesis.
3   What is the purpose of regression analysis?
4   Give the meaning of correlation.
5   What is randomization?
6   Give the difference between one-way & two-way ANOVA.
7   Mention the purpose of using chi-square.
8   Name the non-parametric tests.
9   Write the meaning of reliability.
10   Write the meaning of validity.

SECTION - B 125 Marks)
Answer **ALL** Questions

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

11 a Explain the types of hypothesis with example.

OR

b Check is there is difference in cognitive ability test between 2 groups of participants (one gp had 4 hrs of sleep & other had 8 hrs of sleep). The scores are given below:

8 hrs sleep:	5-7		5	3	5	3	3	9
4 hrs sleep :	8	1	4	6	6	4	1	2

12 a Explain the types of correlation.

OR

b Calculate the correlation coefficient from the following data.

X:	43	21	25	42	57	59
Y:	99	65	79	75	87	81

13 a Briefly explain the principles of experiment.

OR

b   Give the meaning of ANOVA. Explain the assumptions for using ANOVA.

14 a Explain the nature & assumptions for using non-parametric tests.

OR

b Delineate the steps in Sign- test.

15 a List out the applications of SPSS.

OR

b Explain the types of validity.

SECTION - C (30 Marks)
Answer any **THREE** Questions

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

16   Elaborate on the nature & assumptions in using t-test.
17   Give the meaning & purpose of using regression & write the steps in calculating regression.
18   Calculate ANOVA for the following data.

A	B	c	D
12	7	5	5
9	10	8	8