' **PSG COLLEGE OF ARTS & SCIENCE**
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2017
(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   (1 0 x 2 = 20)

1   Statistics.

2   Correlated samples.

3   Independent variable.

4   Curvilinear correlation.

5   Variance.

6   Randomization.

7   Goodness of fit.

8   Median test.

9   Inter-rater reliability.

10   SPSS.

SECTION - B (25 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Highlight the nature and assumptions of T distribution.
                            OR
   b Outline the context of selection of type-I or Type-II error in inference
     making.

12 a Draw a scatter plot for data presented below and interpret.
     Stress index: 85   67 54   49 42 36 32 21 20 18 16 14 10 9   6
     Health index: 10   15 18   22 30 32 36 41 52 60 65 73 80 82 90
                            OR
   b Outline the steps followed for the calculation of simple regression.

13 a Highlight the various measures normally adopted to eliminate the
     extraneous effects of variables.
                            OR
   b Explain the context of applying 'Tukey's test'.

14 a What is coefficient of contingency known as? Give an illustration for the
     calculation of it.
                            OR
   b Explain the meaning of the term: Test of independence of attributes.

15 a Explain the process involved in the calculation of split-half reliability.
                            OR
   b Highlight the advantages and disadvantages of using software based
     statistical analysis.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 1 0 = 30)

Compute 'C.R' for the data given below and interpret the result.

	N	Mean	SD
Group I	50	22.46	3.86
Group II	40	16.12	3.24

List out the various types of correlation and present an illustration for rank order correlation.

Work out one way ANOVA for the information given below.

Group X:	7	8	10	12	7
Group Y :	11	14	14	12	10
Group Z:	14	12	10	16	13

Discuss about the salient features of using Non-parametric test statistics and explain the steps of calculating sign test.

Explain about the various methods of finding out the validity for a newly constructed scale.

Z-Z-Z