PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – **PSYCHOLOGY**

PSYCHOLOGICAL STATISTICS I

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (5 x 1 = 5)

1. Who was the first one to use the word "Statistics"?
   (i) Sir John Sinclair (ii) Sir Ronald Fisher
   (iii) Gotifried Achenwall (iv) Archimedes

2. Which of the following is/are the guiding principles of classification?
   (i) Exactness (ii) Flexibility
   (iii) Homogeneity (iv) All of the above

3. Find the mode for the following: 15, 18,18, 18, 20, 22, 24, 24, 24, 26, 26
   (i) 18, 26 (ii) 24, 26
   (iii) 20, 22 (iv) 18, 24

4. Which of the following is also referred to as "root mean square deviation"?
   (i) Variance (ii) Quartile deviation
   (iii) Standard deviation (iv) Median deviation

5. The mean will always be greater than the median for which type of following data?
   (i) Positively skewed data (ii) Negatively skewed data
   (iii) Zero skewed data (iv) All the above

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

6. a. Define Statistics and bring out its importance.
   (OR)
   b. Explain about the methods of collecting secondary data.

7. a. List out the types of classification.
   (OR)
   b. Define Table. Bring out its parts and uses.

8. a. Define Average. List out the requisites of a good average.
   (OR)
   b. Find the average marks of the entire class X. There are three sections A, B and C in class X with 25, 40 and 35 students respectively. The average marks obtained by section A, B and C are 70, 65 and 50 respectively.

Cont...

9. a. Calculate the quartile deviation and its coefficient from the following data:

Ages (in years)	12	13	14	15	16	17	18
No. of students	12	21	15	20	17	10	5

(OR)

b. Define Range and bring out its uses.

10. a. Bring out the characteristics of normal distribution.

(OR)

b. Write a short note on Central limit theorem.

SECTION - C (30 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 6 = 30)

11. a. Describe about the kinds of variables.

(OR)

b. Bring out the methods of collecting primary data.

12. a. Explain the general rules for constructing a diagram.

(OR)

b. Explain different types of graph with examples.

13. a. Write down the merits and demerits of arithmetic mean.

(OR)

b. From the following data: 17, 18, 16, 17, 17, 14, 22, 15, 16, 17, 14, 12.
Find: a) Mean b) Median c) Mode d) Range

14. a. Find the standard deviation of X which has the probability distribution as shown in the table below.

X	2	3	4
P(X)	0.2	0.3	0.5

(OR)

b. Bring out a short note on measures of dispersion.

15. a. Define skewness. Explain the types of skewness.

(OR)

b. Outline the applications of normal distribution.

Z-Z-Z

END