

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022  
(Third Semester)

Branch – PSYCHOLOGY

STATISTICS FOR PSYCHOLOGY – I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. \_\_\_\_\_ is defined as the total of frequencies that are distributed over different class intervals.  
(i) Frequency distribution                      (ii) Cumulative Frequency  
(iii) Grouping Error                              (iv) Grouping Interval
2. The term \_\_\_\_\_ may be defined as the number representing the percentage of the total number of cases lying below the given score.  
(i) Percentile rank                              (ii) Quartiles  
(iii) Deciles                                      (iv) Medium
3. \_\_\_\_\_ is the simplest but a very rough measure of variability.  
(i) Dispersion                                      (ii) Deviation  
(iii) Range                                        (iv) Mean
4. The concept of degrees of freedom is widely used in dealing with \_\_\_\_\_ sample statistics.  
(i) Small    (ii) Large  
(iii) Ungrouped                                      (iv) Average
5. A \_\_\_\_\_ test is a statistical hypothesis test set up to show that the sample mean would be higher or lower than the population mean, but not both.  
(i) Confidence                                      (ii) Significance  
(iii) two – tailed                                      (iv) one – tailed

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Explain the importance of statistics in psychology.  
OR  
b) Narrate the methods of organizing data.
7. a) Discuss about the most common measures of central tendency.  
OR  
b) Explain mode & median with an example for each.
8. a) State the different measures of variability?  
OR  
b) Explain the types of correlation.
9. a) Explain Confidence Intervals.  
OR  
b) State the purpose of sampling.

Cont...

10. a) Explain standard error.  
OR  
b) Narrate how the size of the sample estimated.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a) Discuss about cumulative frequency and cumulative percentage frequency distributions.  
OR  
b) Trace the advantages of graphical representation of data.
12. a) Explain the steps in computation of percentiles, quartiles and deciles.  
OR  
b) Point the steps the computation of percentile rank.
13. a) Enumerate the steps in computation of quartile and average deviations with an example.  
OR  
b) Explain normal curve & state its application.
14. a) Explain the significance of mean with an illustration.  
OR  
b) Discuss the process of determining the significance of small sample means.
15. a) Describe the concept of Null Hypothesis with an example.  
OR  
b) Explain two - tailed and one – tailed tests of significance.

Z-Z-Z

END