

**BACHELOR'S DEGREE
PROGRAMME (BDP)
(B.A. PSYCHOLOGY)
Term-End Examination**

June, 2025

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : *All Sections are compulsory. Use of a simple calculator is permitted.*

Section—A

Note : *Answer any **two** of the following questions in about **450** words each.*

2×10=20

1. Display frequency distribution in both diagrammatic and graphical forms. 5+5
2. Elucidate the important application of Chi-square test with suitable examples. 5+5

3. Compute Pearson's r for the following raw scores : 10

X	Y
8	24
6	21
7	21
11	24
9	22
12	28
14	25
10	25
13	27
10	23

4. Describe Chi-square as a test of independence. Compute Chi-square test for the following data set : 3+7

Gender	Agree	Neutral	Disagree
Boys	10	15	25
Girls	25	10	15

Section—B

Note : Answer any **four** of the following questions in about **250** words each.

$$4 \times 6 = 24$$

5. Describe the properties and limitations of the mean. 6
6. Elucidate the concept and meaning of inferential statistics and its procedures.

$$3 + 3$$

7. Explain the advantages and disadvantages of non-parametric statistics. 6

8. Compute mean, median and mode of the following data : 2+2+2

10, 11, 13, 13, 11, 15, 10, 9, 11, 8, 15, 16, 12, 17, 13, 12, 12, 8, 10

9. Define coefficient of variation. Compute standard deviation of the following dataset :

$$2 + 4$$

7, 8, 10, 6, 8, 6, 9, 7, 6, 10

Section—C

Note : Write short notes on any **two** of the following in about **100** words each. $2 \times 3 = 6$

10. One-tailed and two-tailed test. 3
11. Properties of Quartile deviation. 3
12. Standard error. 3

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