

**BACHELOR'S DEGREE
PROGRAMME
(BDP)**

(B. A. PSYCHOLOGY)

Term-End Examination

December, 2025

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 Hours

Maximum Marks : 50

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

Section—A

*Note : Answer any **two** of the following questions in about **450** words each (wherever applicable). $2 \times 10 = 20$*

1. Explain the meaning of measures of central tendency and its functions. 4+6

2. Explain the types of measures of variability, elucidating the properties and limitations of quartile deviation and average deviation.

6+4

3. Describe the conditions for rank order correlations. Compute Spearman's rho (ρ) for the following data :

3+7

Data 1	Data 2
1	3
8	2
4	6
7	9
5	8
3	7
14	13
9	18

4. Explain Chi-square as a test of goodness of fit. Compute Chi-square for the following data : 3+7

Responses

Gender	Yes	No
Males	14	16
Females	10	15

Section—B

*Note : Answer any **four** of the following questions in about **250** words each (wherever applicable).* 4×6=24

5. Compute mean, median and mode for the following data : 2+2+2
- 10, 12, 10, 15, 8, 7, 10, 15, 10, 17, 20, 10, 25,
13, 15, 10, 17, 19, 25, 30
6. Describe histogram and frequency polygon with the help of suitable diagrams. 3+3

7. Compute range and standard deviation for the following data : 6
10, 15, 17, 11, 20
8. Define probability and explain the concept of normal distribution with its properties. 2+4
9. Describe the concept and meaning of inferential statistics. Elucidate the inferential procedures. 3+3

Section—C

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

10. Linear relationship 3
11. Standard error 3
12. Pie diagram 3

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