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BPC-004

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

Term-End Examination

June, 2024

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : (i) *All Sections are compulsory.*

(ii) *Use of simple calculator is permitted.*

Section—A

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

1. Define Statistics. Describe the scope and use of Statistics. $3+7$
2. Discuss the measures of central tendency with a focus on its types. Explain the characteristics of a good measures of central tendency. $6+4$

P. T. O.

3. Compute Spearman's rank order test for the following dataset : 10

| X | Y |
|----|----|
| 18 | 19 |
| 11 | 11 |
| 28 | 34 |
| 12 | 17 |
| 14 | 18 |
| 10 | 13 |
| 23 | 21 |
| 27 | 25 |
| 15 | 12 |
| 24 | 27 |

4. Discuss the application of Chi-square test of goodness to fit. Compute Chi-square for the following dataset : 3+7

| | Agree | Neutral | Disagree |
|-------|-------|---------|----------|
| Boys | 10 | 15 | 25 |
| Girls | 25 | 10 | 15 |

[3]

Section—B

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

5. Explain measures of dispersion. 6
6. Describe the meaning of Statistics in the singular and plural sense. 6
7. Discuss diagrammatic presentation of data. 6
8. Explain absolute dispersion and relative dispersion. 3+3
9. Compute mean, median and average deviation for the following ungroup data : 6

15, 12, 13, 23, 42, 30, 28

Section—C

Note : Write short notes on any *two* from the following in about **100** words each.

10. Errors in hypothesis testing. 3
11. Properties and limitations of range 3
12. Kendall's tau 3

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