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BPC-004

**BACHELOR'S DEGREE PROGRAMME
(BDP) (B. A. PSYCHOLOGY)**

Term-End Examination

December, 2024

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. Define Statistics. Explain the types of Statistics on the basis of its functions and distribution of data. 10
2. Explain the meaning, function and measures of dispersion. 10

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P. T. O.

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

X	Y
15	16
8	8
25	31
9	14
11	15
7	10
20	18
24	22
12	9
21	22

4. On an interest test 30 girls and 40 boys obtained the following scores : 10

Groups	Boys	Girls
Mean	35	30
S.D.	8	7
N	40	30
d.f.	39	29

Is the mean difference in the favour of boys and significant at 0.05 level ? (Critical value for d.f. 68 at 0.05 level is -2.00).

Section—B

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

5. Explain the meaning and functions of measures of central tendency. 6
6. Discuss about linear and non-linear correlation. Elucidate the direction and strength of relationship. 2+4
7. Define measurement. Explain the *four* types of scales of measurement. 2+4
8. Compute mean, median and mode of the following data : 2+2+2
8, 9, 12, 12, 11, 10, 14, 9, 8, 10, 7, 14, 15, 11, 16,
12, 11, 11, 7, 9
9. Define variance. Compute the variance of the following dataset : 2+4
5, 6, 8, 4, 6, 4, 7, 5, 4, 8

Section—C

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

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|---------------------------|---|
| 10. Level of significance | 3 |
| 11. The average deviation | 3 |
| 12. Degree of freedom | 3 |

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