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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

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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