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**BPC-004**

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

**(B. A. PSYCHOLOGY)**

**Term-End Examination**

**December, 2022**

**BPC-004 : STATISTICS IN PSYCHOLOGY**

*Time : 2 Hours*

*Maximum Marks : 50*

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

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**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 and types of statistics. 4+6
2. Describe range and quartile deviation with a focus on their properties and limitations. 5+5

**P. T. O.**

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

	Data 1	Data 2
A	20	8
B	12	7
C	14	6
D	16	4
E	18	3
F	21	8
G	18	9
H	19	10
I	16	11

4. Compute Chi-square for the following data : 10

	Disagree	Undecided	Agree
Early Adolescents	10	20	10
Late Adolescents	12	10	8

### Section—B

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

5. Compute mean, median and mode for the following data :  $2+2+2$   
 6, 10, 12, 14, 5, 8, 11, 13, 16, 17, 18, 19, 20, 21, 32, 56, 82, 5, 7, 5, 6, 4, 3, 2, 27

[ 3 ]

6. What is standard deviation ? Compute standard deviation for the following data : 2+4  
3, 4, 10, 16, 7, 8, 10, 7, 10, 9
7. Describe parametric and non-parametric statistics. 6
8. Elucidate the fundamental concepts in determining the significance of the difference between means. 6
9. Explain deviation from normality. 6

**Section—C**

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

10. Point estimation and interval estimation. 3
11. Frequency polygon. 3
12. Probability. 3