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No. of Printed Pages : 3

**BPC-004**

**Bachelor's Degree Programme (BDP)**

**(B. A. Psychology)**

**Term-End Examination**

**June, 2019**

**BPC-004 : STATISTICS IN PSYCHOLOGY**

*Time : 2 Hours*

*Maximum Marks : 50*

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

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**Section—A**

**2×10=20**

**Note :** Answer any *two* of the following questions in about **450** words each.

1. Define 'Statistics'. Describe various types of statistics. 4+6
2. Discuss the meaning and functions of measures of central tendency. 4+6

**(A-18) P. T. O.**

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

	Scores in Test I	Scores in Test II
A	19	20
B	14	17
C	12	37
D	10	24
E	23	11
F	26	13
G	27	26
H	30	32
I	36	29
J	41	43

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

	Early adolescence	Late adolescence
Boys	20	50
Girls	40	10

Critical value = 3.841 at 0.05 level of significance.

= 6.635 at 0.01 level of significance.

## Section—B

4×6=24

**Note :** Answer any *four* of the following questions in about **250** words each.

5. What is Hypothesis Testing ? Describe the errors in hypothesis testing. 3+3
6. Compute mean, median and mode for the following data : 6  
25, 30, 13, 12, 14, 15, 15, 16, 15, 17, 15, 15, 20, 30, 65, 71, 82, 91, 92, 36.
7. Compute standard deviation for the following data : 6  
7, 5, 3, 5, 10, 12, 13, 11, 19, 10.
8. Describe the assumptions for the application for Chi-square test. 6
9. What is normal distribution ? Describe deviation from normality. 2+4

## Section—C

2×3=6

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

10. Interval Estimation. 3
11. Merits and demerits of variance. 3
12. Direction of correlation. 3

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