

No. of Printed Pages : 3

BPC-004

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

**Term-End Examination**

**December, 2018**

**BPC-004 : STATISTICS IN PSYCHOLOGY**

**Time : 2 hours**

**Maximum Marks : 50**

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

**(ii) Use of Simple Calculator can be permitted.**

**SECTION - A**

Answer any two of the following questions in  
about 450 words each : 2x10=20

1. Explain the meaning of statistics and describe its scope and use. 5+5
2. Discuss the concept of dispersion and describe the types of measures of variability/dispersion. 4+6
3. What is correlation ? Compute Pearson's product moment correlation for the following data : 3+7

**Individuals**

	A	B	C	D	E
Scores on Test - I	5	10	25	10	15
Scores on Test - II	6	4	6	4	10

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

	Early adolescence	Late adolescence
Boys	25	30
Girls	30	20

Critical value = 3.841 at 0.05 level of significance

6.635 at 0.01 level of significance.

### SECTION - B

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

4x6=24

5. What is tabulation of data ? Discuss the 2+4  
components of a statistical table.
6. Compute mean, median and mode for the 6  
following data :  
30, 40, 50, 10, 12, 19, 20, 20, 26, 24,  
25, 30, 22, 32, 64, 67, 68, 69, 70, 71
7. Compute standard deviation for the following 6  
data :  
10, 15, 12, 13, 14, 15, 16, 21, 7, 8
8. Discuss the advantages and disadvantages of 6  
non-parametric statistics.
9. Define probability. Describe the characteristics 2+4  
and application of normal curve.

**SECTION - C**

Write short notes on any two of the following in  
about 100 words each : 2x3=6

- |     |                        |   |
|-----|------------------------|---|
| 10. | Level of significance. | 3 |
| 11. | Average deviation.     | 3 |
| 12. | Outliers.              | 3 |
-