

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

**Term-End Examination**

**February, 2021**

**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**

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

*2×10=20*

1. Define descriptive statistics and elucidate any statistical techniques for organising the data. 3+7
2. Explain the meaning of measures of central tendency and describe the functions and characteristics of measures of central tendency. 3+7

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

Data x : 20, 18, 12, 10, 14, 17, 23, 28, 30, 31

Data y : 30, 10, 5, 7, 11, 17, 19, 24, 32, 31

4. Explain the properties of the chi-square distribution. Compute chi-square for the following data : 3+7

|         | Responses |    |
|---------|-----------|----|
|         | Yes       | No |
| Males   | 20        | 15 |
| Females | 20        | 25 |

## SECTION B

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

4×6=24

5. What is hypothesis testing ? Discuss the procedure for hypothesis testing. 6
6. Compute mean, median and mode for the following data : 2+2+2
- 13, 13, 14, 15, 15, 15, 12, 11,  
10, 11, 15, 17, 18, 20, 23, 15,  
15, 12, 10, 7, 8, 10, 11, 12, 10
7. Describe quartile deviation. Compute standard deviation for the following data : 2+4
- 20, 10, 5, 17, 22
8. Define and discuss the advantages and disadvantages of non-parametric statistics. 6
9. Describe the different deviations from normality. 6

## SECTION C

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

2×3=6

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|--------------------------|---|
| 10. Correlation          | 3 |
| 11. Range                | 3 |
| 12. Types of Probability | 3 |
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