

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

Term-End Examination

February, 2021

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 hours

Maximum Marks : 50

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

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

10. Correlation 3

11. Range 3

12. Types of Probability 3
