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

Term-End Examination

June, 2022

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 hours   *Maximum Marks : 50*

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

SECTION A

Answer any ***two*** *of the following questions in about 450 words each :*   *2×10=20*

1. Explain statement of hypothesis testing and level of significance. Discuss the general procedure for testing a hypothesis.   *5+5*

2. Discuss parameter estimation. Explain the advantages and disadvantages of non-parametric statistics.   *3+7*

3. Compute Pearson's product moment correlation for the following data : *10*

Individuals	Data I	Data II
A	10	12
B	11	13
C	7	8
D	9	10
E	12	11
F	4	3
G	7	9
H	3	3
I	1	2
J	3	4

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

	Males	Females
Senior Managers	10	90
Junior Managers	50	50

Critical value =

$3 \cdot 841$ at $0 \cdot 05$ level of significance

$6 \cdot 635$ at $0 \cdot 01$ level of significance.

SECTION B

*Answer any **four** of the following questions in about 250 words each :*   *4×6=24*

5. Describe scatter diagram. Elucidate the steps in making a scatter diagram.   *2+4*

6. Explain the properties and limitations of quartile deviation and average deviation.   *3+3*

7. Discuss the characteristics and applications of the normal curve.   *3+3*

8. Compute mean, median and mode for the following data :   *2+2+2*

10, 11, 11, 12, 11, 11, 13, 7, 8, 9, 10, 12, 13, 11, 11, 11, 12, 13, 9, 2, 21, 4, 5, 16, 17

9. Compute standard deviation for the following data :   *6*

4, 7, 10, 12, 14, 19, 21, 17, 8, 10

SECTION C

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

10. Discrete Frequency Distribution   *3*

11. Assumptions for Significance Testing   *3*

12. Types of Probability   *3*

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