

2023

(CBCS)

(2nd Semester)

PSYCHOLOGY

(Honours)

Paper : C-PSY-04

(Statistical Method for Psychological Research—I)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) What do you understand by statistics?
Elucidate on the importance of statistics
in psychological research. 5+10=15

Or

- (b) Discuss the various kinds of variables
and indicate their importance in
psychological research. What is the
difference between descriptive and
inferential statistics? 8+7=15

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(Turn Over)

2. (a) What do you understand by graphical representations? Discuss its advantages and disadvantages. Differentiate between a bar diagram and a pie chart. $3+6+6=15$

Or

- (b) Define histogram. Construct a histogram for the following data : $3+12=15$

<i>Class intervals</i>	<i>Frequencies</i>
0-10	5
10-20	9
20-30	16
30-40	14
40-50	6

3. (a) Explain variability. Discuss range and semi-interquartile range as measures of variability. $5+10=15$

Or

- (b) Compute mean, median and mode for the following data : 15

<i>Class intervals</i>	<i>Frequencies</i>
50-59	14
40-49	15
30-39	10
20-29	12
10-19	8
1-9	1
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	$N = 60$

4. (a) Explain the properties of normal probability curve (NPC). Given a distribution of mean (M) = 50 and SD (σ) = 5. Calculate what percentage of the cases will fall between 60 and 64.

9+6=15

Or

- (b) Discuss the different types of divergence from normality. Given a distribution of scores with mean (M) = 40 and SD (σ) = 8. Assuming normality, what percentage of cases will lie above and below the score 36?

10+5=15

5. (a) Calculate correlation coefficient using product moment method from the following data :

15

<i>Subjects</i>	<i>Test x</i>	<i>Test y</i>
A	21	41
B	16	41
C	20	46
D	19	43
E	17	45
F	22	50
G	18	42
H	15	40

Or

- (b) Define coefficient of correlation. Explain positive and negative correlation. What are the cautions concerning the use of correlation coefficient? 3+6+6=15
