

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai — 600 044.

B.Sc. (Psy) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - III

21UPCAT3003 - Statistics in Psychology

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Describe descriptive statistics and Inferential statistics in detail.
2. Describe normal distribution, its properties, and its importance in statistics.
3. Compute the average deviation from the following distribution.

Scores	f
80-84	4
85-89	4
90-94	3
95-99	0
100-104	3
105-109	3
110-114	1

4. Sketch the distribution of differences between means.
5. Discuss one-tailed and two-tailed Hypothesis Testing.
6. Classify different types of skewness and Kurtosis with an example.
7. Explain Variance in detail.
8. Infer Chi-square with an example.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Plot histograms, and frequency polygons on the different axes for the following distributions. (N=75)

Contd...

Scores	f
75-79	1
70-74	3
65-69	5
60-64	8
55-59	11
50-54	18
45-49	10
40-44	8
35-39	6
30-34	3
25-29	1
20-24	1

10. Define mean, median and mode. Discuss when each one of them should be computed and why.
11. What is correlation? Describe its characteristics and applications.
12. Elucidate hypothesis testing.
13. Twelve adolescent girls and boys randomly selected from a coeducational senior secondary school were tested through a personality inventory. The scores so collected are given now. Can you conclude, using the Runs test that boys and girls differ significantly in terms of their personality make-up.

Scores on personality inventory

Girls:	156	139	142	135	183	135	178	115	211	174	111	120
Boys :	125	110	92	128	86	77	79	86	96	106	90	85
