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. END SEMESTER EXAMINATION APRIL/NOV - 2021

SEMESTER - III

20UPCAT3003 - Statistics in Psychology

Total Duration : 3 Hrs		**Total Marks : 75**	
MCQ	: 30 Mins	MCQ	: 15
Descriptive	: 2 Hrs.30 Mins	Descriptive	: 60

Section B

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

1. Sketch various scales of measurement used in statistics and frequently used scale for collecting data in education and give reason.

2. Justify when to use mean, median and mode.

3. Discuss the assumptions underlying the use of Pearson's Product Moment Method for the computation of correlation coefficient.

4. Describe type I and type II error.

5. Describe Wilcox on mated-pairs ranks tests.

6. Define and differentiate continuous and discrete variables with examples.

7. Compute the average deviation for the following distribution (N=18)

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

8. Sketch McNemar test for the significance of change in detail.

Section C

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

9. Discriminate Inferential and Descriptive statistics in detail with examples.

10. Solve mean, median and mode for the following frequency table (N=60)

Scores	f	Scores	f
90-94	1	60-64	6
85-89	4	55-59	6
80-84	2	50-54	4
75-79	8	45-49	3
70-74	9	40-44	3
65-69	14		

11. Dissect the term divergence from normality. Elaborate on skewness and kurtosis with illustration.

12. Explain 't'test for Independent means with example.

13. Compare when and where should we try to use parametric or non parametric tests?