Paper/ Course Code: Computer Oriented Statistical Techniques / USIT403
(Duration - 40 min.)

Programme: S.Y.B.Sc. (I.T.)

Semester: IV

Max. Marks: 20
Date: 20/01/2023

Please check whether you have got the right question paper

N.B. - 1. Attempt any FOUR questions.
2. Answers to the same questions must be written together.
3. Numbers to the right indicate marks.

Attempt **any FOUR** of the following   (20)

Q-1.   In an entrance examination, a student scored 50, 55, 60 and 45 marks in four tests.   (5)
Another student scored 53, 50, 47 and 59 in the same test. If the weights are 2, 4, 3 and
1 respectively for these tests, decide who will be selected.

Q.2   Calculate the Mode for the following data regarding tips given by customers to a waiter   (5)
in a day.

Amount in Rs.	10-20	20-30	30-40	40-50	50-60
No. of persons	50	150	175	100	25

Q.3.   Calculate the D_4 for the following distribution: (5)

Daily profit (in Rs.)	700-800	800-900	900-1000	1000-1100	1100-1200	1200-1300	1300-1400
No. of shops	4	6	10	16	12	7	3

Q.4.   Calculate arithmetic mean for the following data: (5)

Class interval	100-149	150-199	200-249	250-299	300-349
Frequency	15	18	14	20	17

Q.5.   Calculate combined mean of the two groups for the following data & hence   (5)
check which group is more consistent.

	Group I	Group II
Number	100	200
Mean	50	45
S.D	5	3

Q.6.   From the following distribution, find the standard deviation.   (5)

X	20	30	40	50	60	70	80	90
F	5	8	12	9	7	5	2	1