

No. of question: 16

BG 5<sup>th</sup> Semester June-2020

No. of pages: 3

Education: (Statistics in Education)

Max. Marks: 90

Time allowed: 2:00 hours

Min. Marks: 36

Note: Attempt all questions from section "A" and "B" and only two questions from section "C"

**SECTION – A: [Short Answer Type Questions]**

**8 x 4 = 32 marks**

Q No. 1:- Write objectives of measures of Central Tendency?

Q No. 2:- Write the merits and demerits of Arithmetic Mean?

Q No. 3:- Define the Median?

Q No. 4:- Write merits of Mode?

Q No. 5:- Write three uses of Range?

Q No. 6:- Write down the formula for calculating the Standard Deviation?

Q No. 7:- Define Percentile?

Q No. 8:- What is the formula for calculating Rank Method?

**SECTION – B: [Medium Answer Type Questions]**

**Section B 4 x 8 = 32 marks**

Q No. 9:- Calculate the median from the following grouped data:

Class Interval	Frequency
0-10	7
10-15	15
15-20	24
20-25	31
25-30	42
30-35	30
35-40	26
40-45	15
45-50	10

**Or**

Convert the following raw scores into the following distribution?

30, 25, 31, 26, 40, 32, 87, 27, 28, 30, 31, 32, 30, 35, 30, 25

Q No. 10:- Calculate the mode from the grouped data?

0-10	4
10-20	10
20-30	25
30-40	15
40-50	10
50-60	6

Q No. 11:- Calculate the standard deviation (SD) from the ungrouped data or direct method?

6, 8, 10, 12, 14

**Or**

Calculate the mean from the ungrouped data?

7, 10, 12, 16, 17, 20, 23

Q No. 12:- Write the types of mean and explain them. Also, write their formulas?

**Or**

State the assumption of student 't' Test and state the properties of t. distribution?

**SECTION – C: [Long Answer Type Questions]**

**Section C 2 x 13 = 26**

Q No. 13:- What is the frequency distribution and what are its uses?

Q No. 14:- Calculate Quartile Deviation from the following grouped data?

15-15	8
15-25	12
25-35	15
35-45	9
45-55	6

Q. No: 15- Find correlation from the following data by rank difference method?

X	Y
16	11
11	9
9	12
13	7
7	11
6	15
8	6
5	5
7	11
8	6

Q. No. 16:- Define correlation? What are its types?

**Note: Dear students please mention the bibliography of your work. Especially, mention the name of the book, the author and its page number.**