D 94831 **(Pages : 2)** **Name.....**

Reg. No.....

FIRST SEMESTER P.G. (INTEGRATED) DEGREE [REGULAR] EXAMINATION, NOVEMBER 2020 (2020 ADMISSIONS) AND NOVEMBER 2021 (2021 ADMISSIONS)

M.Sc. Psychology

STA 1I C02—DESCRIPTIVE STATISTICS

Time : Two Hours Maximum : 60 Marks

Use of calculator and Statistical table are permitted.

Part A (Short Answer Type Questions)

Each question carries 2 *marks.*
Maximum marks that can be scored from this part is 20.

1. Define secondary data.
2. Demonstrate pie diagram.
3. Write a short note on arithmetic mean.
4. Describe the term frequency distribution.
5. What are the advantages of median ?
6. Write a short note on histogram.
7. What are percentiles and deciles ?
8. Define co-efficient of variation.
9. Explain skewness.
10. What are the disadvantages of geometric mean ?
11. How would you calculate the combined mean of two sets of data ?
12. Write the equation for calculating kurtosis.

Part B (Short Essay/Paragraph Type Questions)

Each question carries 5 *marks.*
Maximum marks that can be scored from this part is 30.

13. What are the characteristics for an ideal measure of central tendency ?
14. Define dispersion and list various measures of dispersion. Briefly explain quartile deviation and mean deviation.

Turn over

15. Explain graphical representation of a data ? Give brief idea about any two graphical representations.

16. What are the merits and demerits of mode ?

17. The following data give the arithmetic means and standard deviations of three sub groups. Calculate the arithmetic mean and standard deviation of the whole group :

Sub-group	No. of men	Average Wages	Standard deviation
A	20	610	8
B	100	700	9
C	120	805	10

18. The following table shows the distribution of number of students per teacher in 750 colleges :

Students :	1	4	7	10	13	16	19	22	25	28
Frequency :	7	46	165	195	189	89	28	19	9	3

Draw the histogram for the data and superimpose on it the frequency polygon.

19. From the following data calculate quartile deviation and co-efficient of variation :

X :	170-180	180-190	190-200	200-210	210-220	220-230	230-240	240-250
F :	52	68	85	92	100	95	70	28

Part C (Essay type Questions)

Answer any **one** *question.*
Each question carries 10 *marks.*
Maximum marks that can be scored from this part is 10.

20. Demonstrate primary data and secondary data ? Describe the methods for collecting primary data and secondary data.

21. For the following data calculate (i) mean, (ii) median (iii) Quartile deviation and (iv) Bowley's co-efficient of skewness :

Wages :	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency :	12	25	34	46	25	18	13	7

(1 × 10 = 10 marks)