

D 115928

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Name.....

Reg. No.....

**FIRST SEMESTER INTEGRATED P.G. DEGREE (REGULAR/
SUPPLEMENTARY/IMPROVEMENT) EXAMINATION
NOVEMBER 2024 AND NOVEMBER 2023**

(CBCSS)

M.Sc. Psychology

STA 11C 02—DESCRIPTIVE STATISTICS

Time : Two Hours

Maximum : 60 Marks

*Use of Calculator and Statistical table are permitted.***Part A (Short Answer Type Questions)***Maximum marks that can be scored from this Part is 20.**Each question carries 2 marks.*

1. Briefly explain primary data.
2. Explain bar diagram.
3. What are the disadvantages of harmonic mean ?
4. Define standard deviation.
5. Write a short note on cumulative frequency distribution.
6. Find co-efficient of variation if mean = 118 and variance = 64.
7. Describe measures of dispersion.
8. What are the merits of mode ?
9. Define frequency polygon.
10. Demonstrate the term Kurtosis.
11. Describe the term quartiles.
12. What is Bowley's co-efficient of skewness ?

Turn over

Part B (Short Essay/Paragraph Type Questions)

Maximum marks that can be scored from this Part is 30.

Each question carries 5 marks.

13. What is secondary data ? Describe the methods for collecting secondary data.
14. Define Histogram. Briefly explain the steps of constructing a histogram.
15. Briefly explain skewness. Describe Bowley's coefficient of skewness and Pearson's co-efficient of skewness.
16. Define mean deviation. What are the merits and demerits of mean deviation ?
17. Find the median for the following data :

Class	:	0-20	20-40	40-60	60-80	80-100	100-120	120- 140	140- 160
Frequency	:	12	23	26	32	45	41	36	25

18. Draw less than ogive and greater than ogive for the following data.

Marks	:	14.5- 19.5	19.5- 24.5	24.5- 29.5	29.5- 34.5	34.5-39- 5	39.5- 44.5
Frequency	:	9	11	10	44	45	54
Marks	:	44.5-49.5	49.5-54.5	54.5-59.5	59.5-64.5	64.5-69.5	
Frequency	:	37	28	8	5	1	

19. Find the co-efficient of variation for the following data :

Class	:	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	:	23	29	34	38	47	54	32	28	25

Part C (Essay Type Questions)

*Answer any **one** question.*

The question carries 10 marks.

Maximum marks that can be scored from this Part is 10.

20. For the following data calculate Bowley's co-efficient of skewness and co-efficient of kurtosis :

Class	:	100- 110	110- 120	120- 130	130- 140	140- 150	150- 160	160- 170	170- 180
Frequency	:	25	49	54	61	76	51	49	45

21. Describe measures of central tendency. Briefly explain arithmetic mean, median, mode, geometric mean and hannonic mean. What are the characteristics for an ideal measure of central tendency ?

(1 × 10 = 10 marks)