D 34252 **(Pages : 2)** **Name.....**

Reg. No.....

FIRST SEMESTER INTEGRATED P.G. DEGREE (REGULAR/ SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, NOVEMBER 2022 (FOR 2021 AND 2022 ADMISSIONS)

And

FIRST SEMESTER (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION NOVEMBER 2021 (FOR 2020 ADMISSIONS ONLY)

M.Sc. Psychology

DESCRIPTIVE STATISTICS

STA 11 C02

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. Describe the term data.
2. What are the sources of secondary data ?
3. Describe geometric mean.
4. What is bar diagram ?
5. Describe measures of central tendency.
6. What are Quartiles ?
7. Write a short note on combined standard deviation.
8. Briefly explain ogives.
9. What are the merits of arithmetic mean.
10. Let size of the first sample, $n_1 = 20$; size of the second sample, $n_2 = 30$; average of the first sample = 120 ; average of the second sample = 110. Find combined mean.

Turn over

11. Define range.

12. What is Pearson's co-efficient of skewness ?

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 is primary data ? Describe the methods for collecting primary data.

14. What are the merits and demerits of median ?

15. Define frequency polygon. Briefly explain the steps of constructing a frequency polygon.

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

Class	:	10–12	12–14	14–16	16–18	18–20	20–22	22–24	24–26	26–28
Frequency	:	42	49	28	30	21	35	15	10	27

17. Find Calculate Pearson's co-efficient of skewness for the following data :

Class	:	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90
Frequency	:	7	19	24	38	32	26	18	6

18. Draw the ogives and hence obtain the median for the following data :

Class	:	0–9	10–19	20–29	30–39	40–49	50–59	60–69	70–79
Frequency	:	8	32	142	216	240	206	143	13

19. Briefly explain kurtosis. Establish percentile measure of kurtosis.

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 the term dispersion. Briefly explain the terms mean deviation, quartile deviation, standard deviation and coefficient of variation.

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

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

(1 × 10 = 10 marks)