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Name.....

Reg. No.....

**FIRST SEMESTER INTEGRATED P.G. DEGREE (REGULAR/
SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, NOVEMBER 2023
(2021 ADMISSION ONWARDS) AND SUPPLEMENTARY/IMPROVEMENT
EXAMINATION, NOVEMBER 2022 (2020 ADMISSIONS ONLY)**

M.Sc. Psychology

STA 11 C02—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. What is primary data ?
2. State some sources of secondary data.
3. What are chief functions of tabulation ?
4. Give a brief account of pie- diagram ?
5. How Median is located graphically ?
6. Define Geometric mean for a grouped frequency table
7. The mean and SD of a set of 10 observation are 27 and 9 respectively. If 4 is subtracted from all observations what will be the resulting value of mean and SD.
8. Value of mean is 75 and value of mode is 60 find the value of median
9. Define range of a data
10. Give formula for calculating pooled standard deviation for two population
11. The arithmetic mean of a certain distribution is 5. The second and third moments about the mean are 20 and 140 respectively. Find β_1 and γ_1 .
12. Define 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. Explain the Different Parts of Table ? What are the advantages of tabulation
14. What are the merits and limitations of diagrammatic representation of statistical data ?
15. Define Central Moment ? Express the first 4 central moments in terms of raw moments ?
16. In a recent study on causes of strikes in mills, an experimenter collected the following data. Represent the data by bar chart

Causes	:	Economics	Personal	Political	Rivalry	others
Occurrences (in percentage)	:	58	16	10	6	10

17. The mean weight of a group of 150 students in a certain class is 60 kgs. The mean weight of boys in the class is 70 kgs and that of the girls is 55 kgs. Find the number of boys and girls in the class
18. Compute Bowley's measure of skewness for the following data :

Size	:	5	8	10	12	15	18
Frequency	:	3	8	14	20	13	2

19. Find SD for the following data :

Class	:	10–20	20–30	30–40	40–50	50–60
Frequency	:	2	13	15	17	3

Part C (Essay Type Questions)*Maximum marks that can be scored from this Part is 10.**Each question carries 10 marks.*

20. Find the Median and Mode from the following data :

Marks	No. of Students	Marks	No. of Students
less than 10	5	less than 50	60
less than 20	13	less than 60	80
less than 30	20	less than 70	90
less than 40	32	less than 80	100

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21. Calculate the standard deviation and MD about mean for the following data :

Class	:	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	:	10	15	25	25	10	10	5

(1 × 10 = 10 marks)

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