QP Code: U25DRIS024

Reg. No : .....

Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER (FYUGP/FYVP) DEGREE EXAMINATIONS, NOVEMBER 2025

(Regular/Improvement/Supplementary)

STA1FM105(2) : Fundamentals of Statistics

2024 Admission Onwards

(Credits: 3)

Time:1. 5 Hours **Maximum Marks: 50**

Section A

*Answer **All**. Each question carries **2** Marks.* ***(Ceiling: 16 Marks)***

1. Define primary data.
2. Define sample.
3. What do you mean by prefatory notes?
4. Define discrete data.
5. Draw greater than ogive for the following data.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	12	16	24	30	22	14	8

6. Define dispersion.
7. The mean mark of 100 students was given to be 40. It was found later that a mark 53 was read as 83. What is the corrected mean mark?
8. A car runs along the 4 sides of a square at speeds of 10,20,30,40 km. per hour respectively. Find its average speed around the square.
9. What are the different types of kurtosis?
10. Define quartiles.

Section B

*Answer **All**. Each question carries **6** Marks.* ***(Ceiling: 24 Marks)***

11. Discuss any two application of statistics in different field.
12. How do you construct a histogram for unequal class intervals? Draw a histogram for the following data.

Class	0-10	10-30	30-60	60-100
Frequency	10	40	45	20

Turn Over

13. Calculate mean, median, and mode from the following data.
    9, 11, 10, 12, 13, 15, 15, 16, 18, 20, 21.

14. Calculate the standard deviation and coefficient of variation of the numbers from 1 to 15 .

15. Calculate Bowley's coefficient of skewness for the following data and comment on the result.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	8	15	24	21	12

Section C

*Answer **any one**. Each question carries **10** Marks.* ***(1x10=10 Marks)***

16. Briefly discuss different types of classification of data and different types of table for tabulation purpose.

17. From the prices X and Y of shares A and B respectively given below, state which share is more stable in value.

X	55	54	52	53	56	58	52	50	51	49
Y	108	107	105	105	106	107	104	103	104	101

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