QP Code : U24A022

Reg. No   :   ....

Name   :   ....

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

I SEMESTER B A/B Sc /B Com/BBA/BCA/BSW (FYUGP) DEGREE EXAMINATION,
November 2024
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. What are the different methods of studying a population?   [BTL3]

2. What is primary data?   [BTL1]

3. Identify the type of data in the following cases   [BTL3]
   i) No of Children in 25 families
   ii) Age of 200 students in a college

4. Draw up a blank table to show the number of candidates appearing in the first year, [BTL3]
   second year and third year examinations of a university in Art, Science and
   Commerce stream.

5. Draw a suitable diagram for the following data   [BTL4]

Year	1952	1957	1962	1967	1972	1977
No of women M.P's	22	27	34	31	22	19

6. Give any two merits of median.   [BTL1]

7. What is the variance of a set of values with mean and coefficient of variation are [BTL4]
   respectively 20 and 60%?

8. Calculate the average speed of a car running at the rate of 15 Km.p.h during the [BTL3]
   first 30 km;at 20 k.m.p.h during the second 30 km;and at 25 kmph during the third
   30 km.

9. Evaluate the quartiles for the following data.   [BTL5]

Profit	1	2	4	6	7	9	10
No of Companies	20	23	17	10	5	3	1

10. Evaluate the skewness based on the given information   [BTL5]
    Q_1=142, Q_3=178 and Median =160

Turn Over

Section B

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

11. What are the methods of collecting primary data?   [BTL1]

12. Write a short note on   [BTL1]
    (i) frequency polygon
    (ii) frequency curve

13. Calculate the mean deviation about mean for the following data   [BTL4]

Classes	0-10	10-20	20-30	30-40	40-50
Frequency	5	15	17	11	2

14. Evaluate the mode for the following data   [BTL5]

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	11	14	8	2

15. Define Partition values. What are the different types of partition values? Explain.   [BTL1]

Section C

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

16. Draw a frequency polygon and frequency curve for the following data   [BTL3]

Class	5-9	10-14	15-19	20-24	25-29	30-34
Frequency	8	18	27	21	10	6

17. Calculate the median and quartile deviation for the following data   [BTL3]

Class	0-20	20-40	40-60	60-80	80-100
Frequency	8	21	35	31	5

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