

FIRST MID TERM TEST - 2024

Standard XI

Reg.No.

STATISTICS

Part - I

Marks : 50

8 x 1 = 8

Time : 1.30 hrs

I. Choose the correct answer:

1. The data that can be classified according to colour is
a) Nominal scale b) Ordinal scale c) Interval scale d) Ratio scale
2. The rating of movies as good, average and bad is
a) Nominal scale b) Ordinal scale c) Interval scale d) Ratio scale
3. Which one of the method is probability sampling?
a) Quota sampling b) Snowball sampling
c) Systematic sampling d) Convenience sampling
4. Opinion poll in a study is conducted
a) Before the process start b) After the process
c) Middle of the process d) At any point of time of the process
5. In chronological classification, data are classified on the basis of
a) attributes b) time c) classes d) location
6. Column heading of a table is known as
a) stub b) caption c) note d) title
7. In which one of the following diagrams, data is transformed into angles?
a) pictogram b) Pareto diagram c) Pie diagram d) Histogram
8. The bars are _____ in multiple bar diagrams.
a) sub-divided b) placed adjacently
c) Placed adjacently and sub-divided d) sub-divided and are of equal height

Part - II

5 x 2 = 10

II Answer any 5 questions only.

9. What is the meaning of data?
10. Define Population.
11. Define Sample.
12. List out various types of classification.
13. Define a statistical table.
14. What is a diagram?
15. Write down the formula used for computing the angles of the components in Pie diagram?

Part - III

4 x 3 = 12

III. Answer any 4 questions only:

16. Discuss the definition of Statistics due to Croxdon and Cowden.
17. Distinguish between questionnaire and schedule.

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18. State the objectives of classification?
19. Define one-way and two-way table.
20. Write down the significance of diagrams and graphs.

Part - IV

IV. Answer only 4 questions only:

4 x 5 = 20

21. State the applications of statistics in Agriculture and industry.
22. Describe various methods of collecting primary data and comment on their relative merits and demerits.
23. Explain various types of classification.
24. Construct frequency distribution table for the following data by (i) inclusive method and (ii) exclusive method.
67, 34, 36, 43, 45, 31, 61, 34, 43, 45, 38, 32, 27, 61, 29, 47, 36, 59, 46, 30, 45, 32, 30, 33, 45, 49, 45, 41, 53, 35, 37, 47, 47, 39, 43, 57, 39, 45, 42, 37
25. Draw a Pie diagram for the following data (in hundreds) of house hold expenditure of a family.

Items	Expenditure
Food	87
Clothing	24
Recreation	11
Education	13
Rent	25
Miscellaneous	20

Also find

- (i) The central angle of the sector corresponding to the expenditure incurred on Education
 - (ii) By how much percentage the recreation cost is less than the Rent.
26. A firm reported that its Net Worth in the years 2011-2016 are as follows..

Year	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Net Worth (₹ in lakhs)	100	112	120	133	117

Draw the frequency polygon for the above data.
