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FIRST QUARTERLY TEST AUGUST 2026

CLASS : I PUC

SUBJECT : STATISTICS (31)

Time : 1 Hr. 30 Mins.

Max. Marks : 40

Instructions :

- 1) Statistical tables and graph sheets will be provided on request.
- 2) Scientific calculators are allowed.
- 3) All working steps should be clearly shown.
- 4) Only the first written answers will be considered for Section-A

SECTION-A

I Choose the correct answers from the choices given : 3x1=3

- 1) A quantitative characteristic which varies from unit to unit is-
a) Population b) Sample c) A variable d) An Attribute
- 2) In a table, row headings are called as
a) Captions b) Stubs c) Head note d) Foot note
- 3) If the mean of 'n' observations is 12 and the sum of the observations is 132, then 'n' is -
a) 9 b) 10 c) 11 d) 12

II Fill in the blanks by choosing the appropriate word from those given in the brackets: (Nominal, Ordinal, Discrete) 2x1=2

- 4) A number assigned for identification of different categories is called a _____ scale.
- 5) While framing a frequency distribution if class intervals are not considered, is called _____ frequency distribution.

III Match the following : 3x1=3

- | | |
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| <p>A</p> <ol style="list-style-type: none"> i) Demography ii) News Papers iii) Two dimensional diagram | <p>B</p> <ol style="list-style-type: none"> a) Histogram b) Pie-chart c) Published source d) Study of human population |
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IV Answer the following questions: 3x1=3

- 7) Define Sample.
- 8) What is meant by Pilot Survey ?
- 9) Name the graph used to locate partition values.

SECTION-B

V Answer any TWO of the following questions : 2x2=4

- 10) Mention any two limitations of Statistics.
- 11) What are the stages of statistical enquiry ?
- 12) Write two uses of diagrams and graphs.

SECTION-C

VI Answer any TWO of the following questions : 2x5=10

- 13) Mention the characteristics of Statistics.
- 14) What are the guidelines for the construction of questionnaire ?
- 15) Distinguish between census enumeration and sample survey.

- 16) Prepare a blank table to show the distribution of teaching faculty in a college according to
- Gender : Male, Female
 - Faculty : Arts, Commerce, Science
 - Experience (Years) : Below 5, 5-10, above 10 years

VII Answer any ONE of the following questions : **1x5=5**

- 17) The data given below are the yearly profits (₹ crores) of three companies A, B and C. Represent the data by Multiple bar diagram.

	Profit (₹ crores)		
Years	Company A	Company B	Company C
2022	45	30	55
2023	60	42	48
2024	55	58	65

- 18) Find the missing frequency for the following distribution if mean is 20.2

X	10	15	20	25	30
f	6	8	-	10	6

SECTION-D

VIII Answer any ONE of the following questions : **1x10=10**

- 19) (a) The following data gives ages (years) of 32 individuals in a locality. Prepare a frequency distribution table with class width 10 each.

23, 46, 08, 13, 29, 36, 28, 01, 19, 28

33, 11, 20, 28, 10, 59, 30, 43, 39, 30,

21, 40, 33, 36, 29, 21, 40, 16, 41, 19,

20, 31.

- (b) Following table shows a frequency distribution for the speed of cars passing through at a particular spot on a highway. Draw histogram and then obtain frequency polygon.

Class Interval (Km/hr)	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	6	25	65	50	28	14

- 20) Calculate Median and Mode from the following data :

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	12	16	20	7	5

SECTION-E

(For Visually Challenged Students Only)

- 17) Write the rules for constructing diagrams and graphs.

- 19) (b) What is Histogram ? Explain the procedure of constructing Histogram.
