FIRST TEST AUGUST 2023

CLASS : I PUC **SUBJECT : STATISTICS (31)** **Max. Marks : 40**

TIME : 1 Hr. 30 Mins.

Instructions :

1) **Statistical tables and graph sheets will be supplied 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 answer from the choices given :** **2x1=2**

1) Father of Indian Statistics is

a) R. A. Fisher b) A. L. Bowley

c) Horace Secrist d) Prashantha Chandra Mahalanobis

2) Class mark of the Class-Interval (20-50) is

a) 20 b) 35 c) 30 d) 50

II **Match the following :** **3x1=3**

	A	B
3)	a) Primary data	Human population
	b) Spatial classification	Mailed Questionnaire
	c) Demography	Geographical Location

III **Fill in the blanks by choosing the appropriate word from those given in the brackets:** **2x1=2**
(Partition values, Stub)

4) Row heading of a statistical table is called _____.

5) _____ can be located using Ogives.

IV **Answer the following questions:** **2x1=2**

6) Give an example for Nominal Scale.

7) Define Pilot survey.

SECTION- B

V **Answer any THREE of the following questions :** **3x2=6**

8) Mention the causes of distrust of statistics.

9) Define discrete variable and continuous variable.

10) Write the two sources of secondary data.

11) For a class-interval (20-40) with corresponding frequency 8, find frequency density.

SECTION -C

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

12) What are the functions of Statistics ?

13) Mention the methods of sampling and explain any one of them.

14) Define census enumeration and sample survey and differentiate between them.

(P.T.O)

15) Prepare a blank table to show the distribution of male employees of a firm according to :

a) Age : (25-35), (35-40), (50-60)

b) Wages per day : Less than ₹ 300, ₹ 200 - ₹ 500, ₹ 500 - ₹ 700, ₹ 700 and above

c) Shifts : Day, Night

SECTION-D

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

16) The data given below relate to the marks obtained by 20 students in two subjects. Represent the data by a bivariate frequency table with class intervals 15-25, 25-35 ..... and so on for subject A and 62-64, 64-66.... and so on for subject B

Sl. No.	1	2	3	4	5	6	7	8	9	10
Marks in Subject A	52	70	35	36	37	48	24	17	28	43
Marks in Subject B	67	70	65	65	64	69	63	65	70	71

Sl. No.	11	12	13	14	15	16	17	18	19	20
Marks in Subject A	29	63	39	22	34	40	32	20	48	29
Marks in Subject B	62	70	67	63	68	67	69	66	68	67

17) Draw Ogive curves from the following data and measure the median value

C.I.	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	5	11	21	16	10	6

SECTION -E

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

18) The following are the number of Instagram reels viewed by 48 people of a locality in a day. Form a frequency distribution with Class-Interval of 5 each.

15, 27, 21, 18, 21, 10, 07, 0, 08, 02, 10, 29, 01,
04, 11, 20, 12, 16, 18, 28, 24, 23, 32, 20, 24, 16,
15, 14, 25, 34, 15, 05, 30, 22, 17, 13, 03, 17, 19, 14,
11, 16, 19, 15, 08, 15, 19, 06.

19) Represent the following data regarding interest of students in different games by a pie-diagram

Name of the game	Number of students
Cricket	220
Table-Tennis	150
Badminton	170
Foot ball	100
Basket ball	80

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