

**Y-11-X**

Roll No.....

Total No. of Questions : 26]

[Total No. of Printed Pages : 7

**XIARJKUT23**  
**9211-X**  
**STATISTICS**

Time : 3.00 Hours]

[Maximum Marks : 70

**General Instructions :**

- (a) All questions are compulsory.
- (b) The question paper contains 26 questions.
- (c) Questions 1-5 in Section-A are Objective Type Questions carrying 1 mark each.
- (d) Questions 6-10 in Section-B are Very Short Answer Type Questions-I, carrying 2 marks each.
- (e) Questions 11-22 in Section-C are Very Short Answer Type Questions-II, carrying 3 marks each.
- (f) Question 23 in Section-D is a Short Answer Type Question, carrying 4 marks.
- (g) Questions 24-26 in Section-E are Long Answer Type Questions, carrying 5 marks each.

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Turn Over

**Section-A**

**(Objective Type Questions)**

1 each

1. Median is equal to :

(A) 1st Quartile

(B) 2nd Quartile

(C) 3rd Quartile

(D) None of these

2. The first moment about central mean is always :

(A) Zero

(B) One

(C) Mean

(D) None of these

3. When a series is bell-shaped, then skewness will be :

(A) One

(B) Zero

(C) Positive

(D) Negative

4. Correlation coefficient can be maximum upto :

(A) 2

(B) 1

(C) -1

(D) Zero

5. Hard disc is an :

(A) Input Device

(B) Output Device

(C) None of these

~~(D)~~ Both (A) and (B)

**Section-B**

**(Very Short Answer Type Questions-I)**

2 each

6. What are the advantages of a graph ?

Or

Define briefly an Ogive Curve.

7. What do you mean by Deciles ?

8. Define Coefficient of Variation.

9. Define Moments.

10. What is meant by Bivariate Data ?

**Section-C**

**(Very Short Answer Type Questions-II)**

3 each

11. Give the scope of Statistics.

Or

What do you mean by Quantitative Data ?

12. What are the sources of Secondary Data ?
13. What are the methods of Data Collection ?
14. What do you mean by Discrete and Continuous Data ?
15. What are the essentials of a good Average ?
16. What do you understand by Symmetrical and Asymmetrical Data ?
17. Define Percentiles.
18. What are the absolute measures of Dispersion ?
19. Calculate S.D. for the following Data :

Class Interval	Frequency
0—10	5
10—20	2
20—30	3
30—40	7
40—50	3

1. Define Skewness in detail.
2. What are Raw Moments ?
3. What are different measures of Kurtosis ?

### Section-D

#### (Short Answer Type Questions)

4

13. Calculate the Mean for the following frequency distribution :

Class Interval	Frequency
0—8	8
8—16	7
16—24	5
24—32	6
32—40	4

Or

What are the merits and demerits of measures of Central Tendency ?

**Section-E****(Long Answer Type Questions)**

5 each

24. What is a Bar Chart ? Represent the following data by a bar diagram :

Year	Income (in ₹)
2015-16	22
2016-17	25
2017-18	27
2018-19	30

*Or*

Draw a Histogram from the following data :

Class Interval	Frequency
0-10	2
10-20	5
20-30	7
30-40	5
40-50	2

25. Give the concept of correlation and its types.

*Or*

Show that correlation coefficient is independent of change of origin as well as scale.

26. Write the concept of Flow Charts.

*Or*

What are the functional components of a Computer ?