

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

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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 : <https://www.jkboseonline.com>

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 ?

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