

Total No. of Questions 26)

(Total No of Printed Pages 7

XIARJKUT23 9211-Y 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.

Section-A

(Objective Type Questions)

1 each

	, .	The adoptions)	1 60	a
1,	If arithmetic mean is '10' and the	no. of observations	s are 200, then sum of	
	all the values is:			
	(A) 2	(B) 20		
	(C) 15	(D) None	of these	
2.	If r_2 or β_2 – 3 is zero, then the α	urve is :		
	(A) Platykurtic	(B) Mesoki	urtiqu	
	(C) Laptokurtic	(D) None o	of these	
3.	The second moment about central	mean is always :		
	(A) Mean	(B) Zero		
	(C) Variance	(D) Median		
4.	Correlation coefficient can be maxi	num upto :		m of
	(A) 2	(B) 1		
	(C) -1	(D) Zero		

			(3)		
5.	Har	d disc is an :			
	(A)	Input Device	(B)	Output Device	
	(C)	None of these	(D)		
			Section-B		
			Answer Type	e Questions-I)	2 each
6.	What	are the advantages of	a graph ?		
			Or		
	Define	briefly an Ogive Curv	/e.		
7.	What	do you mean by Deci	les ?		
8.	Define	Coefficient of Variatio	n.		
9.	What o	do you mean by Centi	ral Moments 3	?	
10.	What i	is meant by Bivariate	Data ?		
			Section-C		
		(Very Short	Answer Type	Questions-II)	3 each

11. Give the scope of Statistics.

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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 is Combined Mean ?
- 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

- 20. What is Bowley's measure of Skewness ?
- 21. What is the moment based measure of Skewness ?
- 22. For the following data, calculate first two moments about actual mean:

X	55	65	75	85	95
f	2	3	5	3	2

Section-D

(Short Answer Type Questions)

23. Obtain the median for the following frequency distribution:

X	1	2	3	4	5	6	7	8	9
f	8	10	11	16	20-	25	15	9	6

Or

What is Central Tendency and its measures ?

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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	

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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 ?