

[Time: 3 Hours]
[Max. Marks: 40]
STATISTICS (RS3/RS4)
Q.P. CODE: 9634

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

(Note: Both QP codes 9633 and 9634 should be, completed within the total duration of three hours)
Use separate answer books for 9633 and 9634
ANSWER THE FOLLOWING
2 X 15 = 30 Marks

1. a. What is coefficient of correlation? Explain.
 b. For the following data, compute Spearman's Rank correlation:

Score on variable X:	16	13	12	13	10	8
Score on variable Y:	13	12	10	8	8	6

2. Distribution of post operative day of surgery and pain scores of patients is given in the following table.
 a. Draw a line diagram showing the frequency distribution. What kind of frequency distribution is shown in this table?
 b. What are the advantages of arithmetic mean?

Age	Pain score					
	1-2	3-4	5-6	7-8	9-10	Total
10-13	2	2	6	8	3	21
14-17	1	1	3	4	3	12
18-21	-	-	4	3	6	13
22-25	5	3	3	2	1	14
	8	6	16	17	13	60

SHORT NOTES (Answer any ONE)
1 X 10 = 10 Marks

3. Contingency table.
4. Define and explain Z score.

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