

**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. Define statistics. Briefly explain the concepts and scope of statistics.
2. On studying the hemoglobin levels of 50 mothers and their new borns, the following results were obtained. Test whether presence of anemia in the mother is associated with anemia in the newborn using Chi-square test. (Table value at 1 d.f = 3.84)

Mother	New born			Total
		Anemic	Non-anemic	
	Anemic	22	15	37
	Non-anemic	5	8	13
Total		27	23	50

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

3. Define mean, median and mode. Mention their merits and demerits.
4. Define standard deviation. Calculate standard deviation and coefficient of variation for the following data regards age (yrs) of the patients.  
Age (yrs): 35, 46, 76, 45, 54, 53

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