



[Time: 3 Hours]

[Max. Marks: 40]

Note – Three hours given to complete Q P 9633 & 9634**Statistics (RS3 & RS4)****Q.P. CODE: 9634**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

ANSWER THE FOLLOWING**2 X 15 = 30 Marks**

1. Compute arithmetic Mean, Median, Standard deviation and Coefficient of variation for the following data.

Weight of Adolescent girls (in pounds)	No. of Girls
40 - 59	50
60 - 79	250
80 - 99	500
100 - 119	150
120 - 139	50

2. a) Explain about sampling error
b) Define the following terms with an illustration
(i) Null and alternative hypothesis (ii) One-tailed and two-tailed tests
(iii) α -error and β -error (iv) Power of test (v) Confidence level

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

3. Mention the properties of normal distribution. Add a note on the importance of standard normal distribution in inferential statistics
4. a) Define correlation and regression
b) What are the different measures of correlation? Interpret 'r' for different values

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