



[Time: 3 Hours]

[Max. Marks: 40]

**Note – Three hours given to complete Q P 9606 & 9607****Biostatistics (RS2)****Q.P. CODE: 9606**

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

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

- What do you understand by measurement? State and explain the various levels/scales of Measurement. Indicate appropriate statistical methods for each.
- What are tests of Hypothesis? Explain the need for testing of hypothesis
  - The following data (knowledge sources) are obtained by a nursing researcher to test the effectiveness of structured teaching programme using video assisted and lecture method among two groups of primiparous mothers on the importance of exclusive breast feeding

Video assisted method	14	18	13	11	19	16	17
Lecture method	9	11	7	8	13	10	10

State suitable hypothesis for the above. Test it at 5% level of significance, to state whether there is any significant difference between the two means using student's T – Test

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

- State the underlying assumptions of Chi-square test. Explain Chi-square test for 2 X 2 contingency tables
- Define the following
  - Type I and type II errors
  - Sampling and non-sampling errors
  - Level of significance and confidence level

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