

Rajiv Gandhi University of Health Sciences

First Year M.Sc. (Nursing) Degree Examination - OCT-2017

[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. a) Following is the data on heart rate of ten patients
84, 90, 78, 88, 76, 96, 74, 88, 100 and 72.
Calculate Mean, Median, Mode and Standard Deviation
- b) Compute coefficient of variation for the following data on height (cms) and weight (kgs) of 100 persons

	Mean	SD
Height (Cms)	168.73	21.46
Weight (Kgs)	87.06	17.32

Comment on your result (7+8 = 15 marks)

2. a) State the underlying assumptions of one-way ANOVA
- b) The following is the data obtained by a researcher to compare the effectiveness of three different teaching methods namely - Video assisted teaching (VAT), Structured teaching programme (STP) and Self instructional manual (SIM) in assessing the knowledge of primi antenatal mothers on breast feeding practices. The knowledge score obtained are as follows :

VAT : 12, 15, 13, 17, 10, 11

STP : 9, 8, 10, 11, 12, 14

SIM : 7, 8, 5, 6, 5, 6, 8, 7

By stating suitable hypothesis, test whether there is any significant difference between the three group means using one-way ANOVA (critical value is 3.59) (5+10 = 15 marks)

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

3. List the applications of computer in nursing reserach
4. Distinguish between
 - a) Probability and Non-Probability sampling techniques
 - b) Parametric and Non-parametric tests
 - c) Correlation and regression

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