

Rajiv Gandhi University of Health Sciences

First Year M. Sc. (Nursing) Degree Examination – Nov 2014

[Max. Marks: 40]

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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**

- Prepare a frequency distribution table with equal class intervals, 20-24, 25-29, etc. of the following data on still births of 2001 census of India
27, 37, 40, 32, 30, 36, 25, 39, 30, 29, 26, 30, 20, 35, 32, 28, 53, 29, 27, 30, 30, 32, 33, 27, 29, 36, 37, 29, 52, 42, 43, 29, 33, 32, 25, 50, 41, 28, 54, 20, 37, 49, 25, 48, 42, 51, 23, 26, 24 and 45
 - Draw a histogram and frequency polygon for the frequency table constructed for the above data. (7+8 = 15 marks)
- What are the underlying assumptions for the application of Chi-square test? If these assumptions fail, which alternative statistical test do you use to analyse the data?
 - A researcher wishes to study the relationship between knowledge level and educational status. She has obtained the following data from her research

Educational Status	Level of knowledge scores	
	Below Median	Above Median
GNM	18	18
B.Sc. (N)	13	11

Stating the suitable hypothesis, test at 5% level of significance whether there is any significant association between educational status and the knowledge level (Critical value is 3.841)
(5+10 = 15 marks)

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

- What are the different scales used for measuring the data. Explain each with a suitable example.
- Following are the educational levels found in a community survey

Education level	No. of Persons
No formal education	225
Primary	472
Middle	293
Higher Secondary	201
Graduation	104
Post-Graduation	55

Prepare a pie chart for the above data.

