



## **Rajiv Gandhi University of Health Sciences, Karnataka**

III semester Bachelors in Hospital Administration Degree Examination – May 2016

**Time: Three Hours**

**Max. Marks: 80 Marks**

### **Biostatistics (Operations Research and Research Methodology)**

**Q.P. CODE: 1310**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

#### **LONG ESSAYS (Answer any Two)**

**2 x 10 = 20 Marks**

1. What is operation research? Explain different steps in undertaking Operations research.
2. What is meant by Network analysis? Explain different steps in planning Network Analysis.
3. What are different types of sampling methods? Describe any three random sampling methods with their application in hospital administration.

#### **SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

4. Briefly describe Normal distribution and its applications.
5. Describe different methods of Operation research.
6. Explain Linear programming technique with an example.
7. Describe uses of Games theory.
8. Describe different styles of decision making.
9. Describe uses of game theory and Zero sum games.
10. Briefly explain various steps of planning any research study.
11. What are the principles of experimental designs?
12. What are different steps in decision making?
13. Describe different types of research with examples.

#### **SHORT ANSWERS (Answer any ten)**

**10 x 2 = 20 Marks**

14. Primary and secondary data
15. Hypothesis in research
16. Fundamental research
17. Research problem
18. Zero sum games
19. Objectives in research
20. Qualitative and quantitative data
21. Confidence interval for an estimate
22. Decision trees
23. Research report
24. Sample size for surveys
25. Questionnaire method of data collection

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