

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Semester Bachelors in Hospital Administration Degree Examination - 13-Nov-2025

**Time: Three Hours**

**Max. Marks: 80 Marks**

### **Research Methodology and Operation Research - (RS)**

**Q.P. CODE: 3238**

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. Elaborate the different data collection methods in research
2. Give the layout of a research report and describe the contents
3. What is Operations Research? Elucidate the different OR techniques and their application in management

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

**8 x 5 = 40 Marks**

4. Differentiate research methods and research methodology
5. Elucidate the probability sampling techniques
6. Explain Baye's theorem
7. Explain PERT and CPM
8. Explain the important experimental research design
9. Differentiate sample study and census study
10. Differentiate primary data and secondary data
11. Write a note on the different types of research
12. Elucidate Queuing theory and its applications in hospitals
13. What is tabulation? Give the basic rules in preparing tables

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

**10 x 2 = 20 Marks**

14. Research problem
15. Sampling
16. Extraneous variable
17. Experimental and control groups
18. Game theory
19. Linear programming problem
20. Binomial distribution
21. Questionnaire survey
22. Interview method of data collection
23. Monte Carlo method
24. Stratified random sampling
25. Normal distribution

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