

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Semester Bachelors in Hospital Administration Degree Examination - 08-May-2025

**Time: Three Hours**

**Max. Marks: 80**

### **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. Discuss aim and significance of research
2. What is sample and sampling? Explain systematic sampling technique
3. Explain scope and application of quantitative techniques

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

**8 x 5 = 40 Marks**

4. Mention various steps in conducting scientific research
5. What is literature review? What is the significance of literature review?
6. Explain principles of experimental research design
7. Explain questionnaire method of data collection. Mention merits and demerits of questionnaire method
8. Discuss the layout of research report
9. Discuss the scope and application of operations research
10. What is decision making theory? Briefly explain different types of decision making
11. Explain advantages of PERT and CPM
12. Write a note on transportation and assignment problem
13. Discuss the applications of queuing theory

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

**10 x 2 = 20 Marks**

14. Research design
15. Literature Review
16. Tabulation of data
17. Analysis of data
18. Descriptive research
19. Probability
20. Bays theorem
21. Poisson distribution
22. Decision tree
23. Two person zero sum game
24. Simulation
25. Methods of solving LPP

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