Rajiv Gandhi University of Health Sciences, Karnataka

III Semester Bachelors in Hospital Administration Degree Examination - 30-Oct-2026

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. Describe the different types of research and research approaches
2. Give a brief note on Linear Programming and its application in management. List out the step in construction and solving of LPP
3. Elucidate the different data collection methods of quantitative and qualitative research

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Explain what is meant by research problem and how to frame them
5. Describe Game theory and its application in management
6. Explain PERT and CPM with an example from a healthcare setting
7. Elucidate the methods of collecting primary data
8. Elucidate the significance of writing research report and the precautions to be taken while writing research reports
9. Differentiate Binomial distribution and Poisson distribution
10. Explain the non-probability sampling methods and their merits and demerits
11. Explain how queuing theory can be applied in hospitals
12. Frame a small questionnaire for patient satisfaction survey
13. Explain the application of operations research with the help of any one of the OR techniques

SHORT ANSWERS (Answer any ten) **10 x 2 = 20 Marks**

14. Descriptive research
15 Census study
16. Simple random sampling
17. Basic principles of experimental designs
18. Dependant and independent variable
19. Monte Carlo method
20. Observation method for data collection
21. Secondary data
22. Purposive sampling
23. Tabulation of data
24. Research design
25. Research problem

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