

Rajiv Gandhi University of Health Sciences, Karnataka

III Semester Bachelors in Hospital Administration Degree Examination - 21-May-2026

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. What is quantitative research? Explain different methods of quantitative research
2. Define Network Analysis. Explain The Program Evaluation Review Technique (PERT) And The Critical Path Method (CPM) In Operational Management
3. What is probability? If we toss a fair coin three times what is the probability of getting two or more heads?

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Briefly discuss inferential statistics
5. Deliberate properties of probability
6. Discuss sequential sampling and its pro and cons
7. Describe various technique involved in defining research problem
8. Discuss technique of interpretation and its advantages and limitations
9. Observational data collection method and its advantages and limitations
10. Explain graphical and simplex solution of Linear programming problem
11. Discuss the application of decision theory in statistics and operational research
12. Discuss quantitative techniques data collection interview, observation in tabulation
13. Write a note on "Queuing theory"

SHORT ANSWERS (Answer any ten)

10 x 2 = 20 Marks

14. Bays theorem
15. Mean and median
16. Review of literature
17. Purposive sampling
18. Degrees of freedom
19. Fundamental research
20. Objectives of research
21. Application of 't' test
22. Focus group interview
23. Primary and secondary data
24. Concept of hypothesis in research
25. Interview for qualitative data collection
