

Rajiv Gandhi University of Health Sciences, Karnataka

**III Semester Bachelors in Hospital Administration Degree Examination - 07-
Dec-2023**

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 do you mean by research? Explain methods and methodology
2. Define probability and probability distribution. Explain different properties of normal distribution
3. Given the equiprobable sample space $S = \{0,1,2,3,4,5,6,7,8,9\}$ and events $A = \{3,6,9\}$. Find the probability of event A

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Elucidate network analysis methods
5. Discuss on limitations of probability
6. Describe different experimental design
7. Discuss scientific approach in decision making
8. Discuss on techniques of operational research
9. Explain types of research reports
10. Briefly discuss on theory of games
11. Explain the concept of analysis and interpretation of data
12. Enumerate union and intersection of events and types of events
13. What is sequential sampling method? Inscribe the advantages and disadvantages

SHORT ANSWERS (Answer any ten)

10 x 2 = 20 Marks

14. Decision trees
15. Null hypothesis
16. Secondary data
17. Research reports
18. Sampling variation
19. Tabulation of data
20. Conditional probability
21. Quantitative research
22. Monte-Carlo technique
23. Concept of queuing theory
24. Census and survey method
25. Research problem and hypothesis
