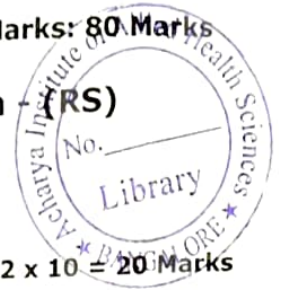# Rajiv Gandhi University of Health Sciences, Karnataka

III Semester Bachelors in Hospital Administration Degree Examination - 18-May-2023

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. What is sampling? What is the need of sampling? Elaborate the various sampling methods.
2. Elaborate on different Operation Research Techniques
3. Explain in detail CPM and PERT.

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

4. Write a brief note on Binomial and Poisson Probability Distribution.
5. What are the basics principles of experimental design?
6. Elaborate on the significance and layout of the research report.
7. What are the various steps in designing a research project?
8. Explain briefly the various types of research design.
9. Write a note on quantitative techniques.
10. Describe the various qualitative techniques for data collection?
11. What is Queueing Theory? List down its applications.
12. Describe Linear programming technique
13. Describe the various types of research.

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

14. Secondary data
15. Two persons zero sum game
16. What is crashing the network?
17. Differentiate between census and survey.
18. Decision Tree
19. Observation method of data collection
20. Fundamental research
21. Normal Probability Distribution
22. What is Theory of Games?
23. Objectives of research
24. What is purposive sampling?
25. Slack Time

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