

Rajiv Gandhi University of Health Sciences, Karnataka

III semester Bachelors in Hospital Administration Degree Examination – APRIL 2015

Time: Three Hours

Max. Marks: 80 Marks

Bio Statistics (Operations Research & Research Methodology)

Q.P. CODE: 1310

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. Define Probability and Probability distribution. Explain different properties of Normal distribution.
2. Explain different methods of quantitative methods of data collection with their merits and demerits.
3. What is meant by Network analysis? Explain different steps in planning Network analysis.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Describe different methods of collection of qualitative data.
5. Describe different experimental designs.
6. Describe Queuing theory and its applications.
7. Describe different time estimates which can be calculated from critical path analysis.
8. Describe prerequisite information for decision analysis.
9. Describe Standardised Normal variate and its uses.
10. Briefly describe different Operation research techniques.
11. Describe Simple random sample and Stratified Random sample.
12. Describe observation method of data collection and its advantages and disadvantages.
13. Describe uses of game theory and Zero sum games.

SHORT ANSWERS (Answer any ten)

10 x 2 = 20 Marks

14. Applied research.
15. Observation method of data collection.
16. Frequency distribution table.
17. Fundamental research.
18. Hypothesis in research.
19. Objectives in research.
20. Decision trees.
21. Systematic random sample.
22. Qualitative and quantitative data.
23. Slack time in CPM.
24. Earliest start time in CPM.
25. Randomization in experimental design.
