

**HOSPITAL ADMINISTRATION**  
**Research Methodology and Operations Research****Q.P. CODE: 8713**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY****1 X 20 = 20 Marks**

1. What do you mean by Linear Programming Technique? Discuss the various types of solving LPP problems. What are the assumptions made in Linear programming technique and what are its limitations?

**SHORT ESSAY (Answer any Seven)****7 X 10 = 70 Marks**

2. Explain the steps involved in research design.
3. Explain the observation method of data collection with examples.
4. Explain the criteria for good research.
5. Define simulation. Explain the types and the process of simulation.
6. What is decision tree? Briefly explain the steps of decision making process, also add a note on the types of decision making environments.
7. Time series analysis
8. Define sample design. What points are to be considered by a researcher in developing a sample design?
9. Describe time and motion study under the following heads.  
(a) definition (b) objective (c) steps involved (d) importance.

**SHORT ANSWERS (Answer any Five)****05 X 02 = 10 Marks**

10. Ex post facto research
11. Alpha error
12. Likert scale
13. Types of events in PERT
14. Patterns of arrival in the queuing theory.
15. System analysis

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