

Paper I — RESEARCH METHODS AND  
QUANTITATIVE TECHNIQUES

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Time : Three hours

Maximum : 80 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Define the term 'research'. Discuss the general characteristics of research.
2. Explain the need for sampling. Discuss the various methods of random sampling.
3. Define - Hypothesis. What are the qualities of a good hypothesis? Discuss the different types of hypothesis.
4. What is a questionnaire? Discuss the factors that you would like to consider while designing the questionnaire.
5. What is meant by 'research design'? Discuss the various types of research design.
6. Discuss the various measures of central tendency.

7. Discuss the role of libraries and information centres in promoting research.
  8. Write short notes on any THREE of the following.
    - (a) Pure research.
    - (b) Participant Observation.
    - (c) Case study method.
    - (d) Constructive typology.
    - (e) Time series analysis.
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Paper II — LIBRARY INFORMATION PROCESSING  
AND RETRIEVAL TECHNIQUES

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Time : Three hours

Maximum : 80 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Define Information Retrieval and discuss various basic concepts involved in information storage, processing and retrieval.
2. Give an account of the UDC as an Indexing language for mechanised information retrieval system.
3. Write an essay on print and Non-print media.
4. Write a critical note on Chain Indexing and Relational Indexing in detail.
5. Explain the stages involved in compiling a thesaurus.

6. Explain the components and characteristics of information retrieval system.

7. Explain the general theory of subject indexing language.

8. Write short notes on any THREE:

(a) Bibliographic control.

(b) Uniterm Indexing.

(c) 'Recall' and 'Precision'

(d) Notation.

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Paper III — MANAGEMENT OF LIBRARY AND  
INFORMATION SYSTEM

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Time : Three hours

Maximum : 80 marks

Answer any FOUR questions.

All questions carry equal marks.

1. What do you mean by system approach? Examine how this can be applied in information systems.
2. Differentiate PPBS from Zero based budgeting.
3. Discuss in detail various schools of management thought.
4. Explain the need, purpose and methods of evaluating a library system.
5. Explain the need and steps in planning an information centres.
6. Explain the concepts of information product and information service and discuss the process of pricing them.

7. Explain the factors involved in deciding the organizational structure.
  8. Write short notes on any THREE of the following :
    - (a) Formal communication.
    - (b) Economics of information.
    - (c) System Theory.
    - (d) Operations research.
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