

2005

(December)

LIBRARY AND INFORMATION SCIENCE

(**Library System Analysis and Design**)

Course No. : 301

Full Marks : 75

Time : 3 hours

The questions are of equal value

Answer **five** questions, taking at least **one**
from each Unit

UNIT—I

1. "Systems Approach provides an effective framework to the library management." Elaborate the statement and discuss the role of a Systems Analyst.
2. Describe library as a system with appropriate examples.

UNIT—II

3. Explain the use and purpose of 'Work Flow Chart' and 'Data Flow Diagram' in library system analysis and design.

4. Describe the salient features of Gantt Chart and Decision Tables with suitable examples from library environment.
5. Explain the System Analysis phase of systems study. Describe the processes involved and mention the names of the tools required.
6. Explain the PERT/CPM and discuss the need and purpose of Network Analysis.

UNIT—III

7. Discuss various steps involved in the design and development of a computer-based library and information system.
8. Define the terms input and output by illustrating their form design.

UNIT—IV

9. Write notes on any *two* :
 - (a) File organisation
 - (b) Recovery and ethics
 - (c) Concept of 'wholesomeness'
 - (d) Quality assurance
10. Describe with suitable examples the various processes involved in system implementation.

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2006

(December)

LIBRARY AND INFORMATION SCIENCE

(**Library System Analysis and Design**)

Course No. : 301

*Full Marks : 75**Time : 3 hours**The questions are of equal value*

Answer **five** questions, taking at least **one**
from each Unit

UNIT—I

1. What is a 'system'? What are the different types of systems? To which type do the libraries belong and why?
2. Describe the role of the Librarian as a system analyst.

UNIT—II

3. Describe the various tools for gathering information.
4. What is structured analysis? Describe Data Flow Diagram (DFD) with suitable illustrations.

UNIT—III

5. What is feasibility study? Describe three key considerations involved in feasibility analysis.
6. Define cost/benefit analysis. Describe the various evaluation methods used in cost/benefit analysis.

UNIT—IV

7. Describe the process of design and elaborate the I/O forms.
8. What is database management system? Describe its usefulness in a library system.

UNIT—V

9. What is system implementation? Elaborate the process of hardware/software selection.
10. Do you think that 'quality assurance' has a role to play in the implementation of a newly founded decentralised library system? Give reasons to justify your answer.

2007

(December)

LIBRARY AND INFORMATION SCIENCE

(Library System Analysis and Design)

Course No. : 301

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking at least **one** from each Unit

UNIT—I

1. What is a system? Describe the characteristics of the various types of systems. 3+8+4
2. Describe library as an open system and mention the role of the librarian as a system analyst. $7\frac{1}{2}+7\frac{1}{2}$
3. What is SDLC? Briefly discuss the various stages of SDLC. 3+12

UNIT—II

4. What is planning? Describe the SDLC of the planning phase. 3+12
5. Describe the tools and techniques of structured analysis. 15
6. What is cost benefit analysis? Describe the various types of feasibility study and the process of preparing a system proposal. 15

UNIT—III

7. What is system design? Discuss the processes and stages of system design. 15
8. Describe system implementation and mention the requirements of designing I/O forms. $7\frac{1}{2}+7\frac{1}{2}$

UNIT—IV

9. Describe system testing. Discuss the requirements of hardware/software selection. $7\frac{1}{2}+7\frac{1}{2}$
10. Describe the potential security threats to a system and mention the respective measures of security. $7\frac{1}{2}+7\frac{1}{2}$

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2008

(December)

LIBRARY AND INFORMATION SCIENCE

(Library System Analysis and Design)

Course No. : 301

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, taking at least **one**
from each Unit

UNIT—I

1. What is a system? Describe the concepts and types of systems. 5+5+5
2. Discuss the characteristics of an open system, using library as a model. 7½+7½
3. What is SDLC? Describe its five main stages. 5+10

UNIT—II

4. Explain the qualifications and role of system analyst in the library. 7½+7½
5. What is planning? Explain the importance of planning and investigation in system analysis. 5+5+5
6. Describe the information gathering tools commonly used for collection of system information. 15

UNIT—III

7. What is structure analysis? Describe flowchart and DFD with illustrations and also justify its importance. 4+7+4
8. Define system design and mention the processes and stages of system design. 5+10

UNIT—IV

9. What is system testing? Describe in detail the steps of system testing. 5+10
10. Is system maintenance important? Describe the activities that required application of system maintenance. 5+10

2009

(July)

LIBRARY AND INFORMATION SCIENCE

Course No. : LIS-O 201

(**Library System Analysis and Design**)

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting at least **one**
from each Unit

UNIT—I

1. Define system and describe the characteristics of a system. 5+10=15
2. Describe library as an open system. 15
3. Discuss the phases of System Development Life Cycle (SDLC). 15

UNIT—II

4. What is planning? Describe the dimensions of planning. 5+10=15
5. Define the sources of information and information gathering tools of system study. 5+10=15
6. What are the main key considerations of feasibility analysis? Describe the methods of cost-benefit analysis (with suitable illustrations) in the light of economic feasibilities. 5+10=15

UNIT—III

7. What is system design? Discuss the process and stages of system design. 5+10=15
8. Discuss system testing in the light of quality assurance. 15

UNIT—IV

9. What is project scheduling? Discuss the triangular approach of project management with appropriate illustrations. 5+10=15
10. What is ethics? Discuss the importance of ethics in system management. 5+10=15

2009

(December)

LIBRARY AND INFORMATION SCIENCE

Course No. : 301

(**Library System Analysis and Design**)

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting at least **one**
from each Unit

UNIT—I

1. Describe system concepts and describe the types of systems. 7½+7½
2. Describe library as an open system and mention the characteristics of an open system. 7½+7½
3. Describe the five main stages of system development life cycle. 3×5

UNIT—II

4. What are the desirable capabilities of a system analyst? Discuss the nature of job a system analyst is expected to perform in the library. 7+8
5. Contextualize the concept and importance of planning and investigation in a library system. $7\frac{1}{2}+7\frac{1}{2}$
6. Describe the various techniques of collecting system information. Which technique or techniques would be most suitable for a library system? Justify. 5+5+5

UNIT—III

7. Mentioning the various tools of structured analysis, discuss the application of each tool in the library system. 15
8. Describe the processes and stages of system design. 7+8

UNIT—IV

9. Describe, in detail, the steps of system testing in the context of a library system.

15

10. Discuss and justify the importance of maintenance in a library system.

7½+7½

Full Marks 75

Time - 3 hours

The figures in the margin indicate full marks for the questions.

Answer five questions, selecting at least one from each Unit.

UNIT—I

1. Describe system concepts and describe the types of systems.

2. Describe library as an open system and mention the characteristics of an open system.

3. Describe the five main stages of system development life cycle.