

Information Systems and Software

Exam Revision Notes (BCA / B.Com / 10th Level)

1. Information Systems

An Information System combines hardware, software, people, procedures and data to produce useful information.

Example: College Management System.

2. Information Gathering

Requirements are collected using interviews, questionnaires, observation and document study.

3. Requirement Analysis

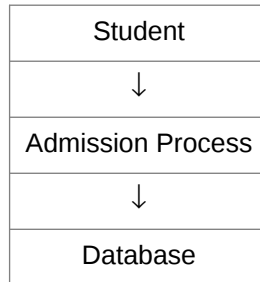
Functional requirements describe what the system does. Non-functional requirements describe performance, security and usability.

4. Feasibility Analysis

Technical, Economic, Operational and Schedule feasibility determine whether a project should proceed.

5. Data Flow Diagrams

DFDs show how data moves between entities, processes and storage.



6. Process Specification

Defines detailed logic for each process shown in a DFD.

7. Input Design

Focuses on accurate, user-friendly and validated data entry forms.

8. Output Design

Designs reports, screens and printouts that are clear and useful.

9. SDLC

Planning → Analysis → Design → Development → Testing → Deployment → Maintenance.

10. Project Planning & Management

Includes scheduling, budgeting, resource allocation, risk management and monitoring.

Short Questions for Revision

- What is an Information System?
- Define requirement analysis.
- What are the four types of feasibility?
- What is a Data Flow Diagram?
- Explain process specification.
- What is input design?
- What is output design?
- List SDLC phases.
- Why is project planning important?
- Give one example of an information system.

Quick Tips

Remember: Gather requirements before coding, validate inputs, produce clear outputs, and follow SDLC for successful software projects.