

A-1268

Total Pages : 3

Roll No.

BCA-12

Bachelor of Computer Application (BCA)

System Analysis and Design

Examination February, 2026

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

Long Answer Type Questions (2×19=38)

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

A-1268

(1)

P.T.O.

1. Define a system. Explain in detail the elements of a system with neat diagram and suitable examples.
2. Who is a System Analyst ? Explain the role and responsibilities of a system analyst in an organization.
3. Explain the System Development Life-Cycle (SDLC) in detail. Describe each phase and their importance.
4. Explain the development process of DFD. Draw a sample DFD for a simple library management system.
5. Explain the System Implementation process. Discuss System Testing, Conversion Methods, Quality Assurance, and System Evaluation.

Section–B

Short Answer Type Questions (4×8=32)

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What is information ? Describe various categories of information with examples.
2. What is System Documentation ? Explain the types of documentation.

3. Discuss the importance of Information Gathering.
Explain the tools.
4. Explain System Flowcharts, Structured Charts, and Structured English with examples.
5. Explain the process of System Design in detail. Discuss Logical Design and Physical Design with examples.
6. Discuss the guidelines for good Form Design and explain the types of forms used in information systems.
7. Describe the different types of Maintenance activities and the issues faced during system maintenance.
8. Describe the steps involved in Risk Analysis. How does it help in improving system security ?
