

SECTION—B

3. (a) What is modular design ? What is principle of modular design ? Enumerate the steps involved in the modular design. 8
(b) What is Input/Output design ? Illustrate the process involved in this design. 7
4. Explain the following :
- (a) Structured Design Tools 8
(b) System Design Principles. 7

SECTION—C

5. (a) What is System Testing ? What are its main objectives ? Explain. 6
(b) What is system implementation ? What are its main stages ? How are these carried out ? Illustrate. 9
6. Explain the following :
- (a) Documentation Tools and their relevance 7
(b) Quality Assurance and its importance. 8

SECTION—D

7. What are different types of system testing ? What role do these play ? How are these performed ? Illustrate. 15
8. What is system maintenance ? How is it significant ? What are different types system maintenance ? How are these carried out ? Illustrate. 15

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B.Sc. Information Technology 3rd Semester (Batch 2020-23)

SYSTEM ANALYSIS AND DESIGN

Paper—III

Time Allowed—3 Hours]

[Maximum Marks—75

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. (a) What do you understand by system development lifecycle (SDLC) ? What are the various phases of SDLC ? Outline the phases of SDLC with a brief description of each. 12
(b) What is feasibility study ? How is it important in system planning ? Illustrate. 3
2. Explain the following :
- (a) Cost-benefit analysis 8
(b) Role of System Analyst. 7