

2026

SYSTEM ANALYSIS AND DESIGN (e-B5) — MINOR

Paper : MN-7

Full Marks : 75

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Group - A

1. Answer **any five** questions :

2×5

- (a) What is meant by feasibility study?
- (b) State any two features of Waterfall model.
- (c) Define Integration Testing.
- (d) What is Data Dictionary?
- (e) State any two disadvantages of Spiral model.
- (f) What is System Development Life Cycle (SDLC)?
- (g) Define Database Design.
- (h) What is System Analysis?

Group - B

2. Answer **any five** questions :

5×5

- (a) Differentiate between Top-down and Bottom-up approach in software development.
- (b) What is meant by Decision Tree? State its advantages.
- (c) Make a comparison between logical and physical design.
- (d) Briefly explain the role of System Analyst in an organisation.
- (e) State the importance of Information Requirement Analysis.
- (f) Write a short note on Test Case Generation.
- (g) Explain the concept of Input and Output Controls.
- (h) State the usefulness of any five tools used in User Interface Design.

Please Turn Over

(6023)

Group - C

3. Answer *any four* questions :

10×4

- (a) Briefly explain the phases involved in System Development.
 - (b) Describe in detail about the purpose of having input/output Control System.
 - (c) Explain the role of Data Flow Diagram in Information System Analysis.
 - (d) Discuss the importance of Software Testing in System Development.
 - (e) Draw an object model for library management system.
 - (f) Discuss the various tools and techniques of System Design.
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