MCS–014

MASTER OF COMPUTER APPLICATIONS (REVISED)/ BACHELOR OF COMPUTER APPLICATIONS (REVISED) (MCA/BCA)

Term-End Examination

June, 2025

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 Hours *Maximum Marks : 100*

Weightage : 75%

Note : *(i)* *Question No.* ***1*** *is compulsory.*

(ii) *Attempt any* ***three*** *questions from the rest.*

1. (a) What is a system ? What is the need of system study ? What are different types of system ? Explain.   10

    (b) Draw ERD for "online shopping system". Make necessary assumptions.

          10

    (c) What is the need of feasibility study ? Explain different types of feasibility.   10

    (d) What is software maintenance ? Briefly explain different types of maintenance.

          10

2. (a) Briefly explain computer system security issues.   10

    (b) Draw Level-0 and Level-1 DFDs for "Online Shopping System". Make necessary assumptions.   10

3. (a) What is software development life cycle ? Explain different phases of this.

          10

(b) What is the role of system analyst ?
Explain in detail. 10

4. (a) What is the process of documentation ?
Explain various steps in it. 10

(b) What is transaction processing system ?
What are the components of transaction
processing system ? 10

5. Write short notes on the following : 2×10=20

(a) Cost-Benefit Analysis

(b) CASE tools

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