## M. C. A. (REVISED)/B. C. A. (REVISED) (MCA/BCA)

## **Term-End Examination**

June, 2023

## MCS-14: SYSTEMS ANALYSIS AND DESIGN

Time: 3 Hours

Maximum Marks : 100

Weightage: 75%

Note: Question No. 1 is compulsory. Attempt any

three questions from the rest.

- (a) What is Prototyping Approach for system design? Explain the steps involved in Prototyping process with the help of a diagram.
  - (b) What is a DFD? Draw DFD's upto 2nd level for "Online Examination System". 10

**Note**: Make necessary assumptions.

(c) What is MIS? How is it useful for management control and strategic planning in an organization?

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What are CASE Tools? Explain the role of
CASE Tools in technical and managerial
aspects of software development process.
List advantages and disadvantages of
CASE Tools.

- (a) Prepare an outline of SRS for an "Online Examination System". Make necessary assumptions.
  - (b) What are the duties of a systems analyst?

    Why technical and managerial skills are required for the job of systems analyst?

    Explain.
- 3. (a) What is the need of feasibility study?Explain any four issues involved in feasibility study.
  - (b) What is modularity in a system? Explain the concepts of coupling and cohesion. Is there any relationship between coupling and cohesion? Explain.

- 4. (a) Explain the following with an example for each:  $2\times5=10$ 
  - (i) Class diagram
  - (ii) E-R diagram
  - (b) What is SDLC? Briefly explain all the seven phases of SDLC.
- 5. Write short notes on the following:  $4 \times 5 = 20$ 
  - (a) Distributed Systems
  - (b) Structure Charts
  - (c) Internal and External Information
  - (d) Risk Analysis

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