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MCS-014

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

Term-End Examination

June, 2024

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) Draw 0-level and 1-level DFDs for a 'Library Information System' of a University. Make necessary assumptions.

10

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- (b) Draw ERD for 'Library Information System' of a University. Make necessary assumptions. 10
- (c) Write SRS outline for 'Library Information System' of a University. Make necessary assumptions. 10
- (d) Discuss Real Time Systems and Distributed Systems. 10
2. (a) Explain any *five* roles of a Systems Analyst. 10
- (b) Explain the phases of a SDLC. 10
3. (a) What are State Machine Diagrams and Object Interaction Diagrams ? Draw and explain. 10
- (b) Explain any *two* requirements gathering techniques. 10

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4. (a) What is Coupling ? Explain any *four* types of Coupling. 10
- (b) Explain various guidelines for User Interface Design. 10
5. (a) Explain the criteria for design of reports. 10
- (b) Explain the five categories into which CAIE tools can be classified. 10