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MCS-014

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

Term-End Examination

December, 2023

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 'Student Admission System' of a university. Make necessary assumptions.

- (b) Draw ERD for 'Student Admission System' of a university. Make necessary assumptions. 10
- (c) Write SRS outline for 'Student Admission System' of a university. Make necessary assumptions. 10
- (d) Explain any *two* fact finding techniques. Give their merits and demerits. 10
2. (a) Explain any *two* approaches for development of information systems. 10
- (b) Why do businesses need system analysts ? Explain the role of system analyst in modern business. 10
3. (a) Explain any *two* types of Documentation. 10
- (b) Explain any *two* design principles using an example. 10

4. (a) What is a Data Dictionary ? Explain any *two* process specification tools. 10
- (b) Explain the process of designing forms and reports. 10
5. (a) What is a flat file ? How does it differ from a database ? Explain various steps in design of a database with the help of a diagram. 10
- (b) Explain any *five* ways in which CASE tools can be used by an organization. 10