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.*

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1. (a) Draw 0-level and 1-level DFDs for 'Student Admission System' of a university. Make necessary assumptions.

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(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.

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(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

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