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MCS-014

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

(MCA/BCA)

Term-End Examination

June, 2022

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 DFDs upto 2nd level (start from level-O) for a 'Railway Reservation System'. Make necessary assumptions. 10

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- (b) Draw ERD for a Railway Reservation System. Make necessary assumptions. 10
- (c) What are Visual CASE tools ? Explain any *two* types of emerging CASE tools. 10
- (d) What is an Expert System ? Explain various components of an Expert System. 10
2. (a) Explain any *two* approaches for the development of Information Systems. 10
- (b) Explain any *two* categories of skills that need to be possessed by a Systems Analyst. 10
3. (a) Explain the process of performing Cost-Benefit Analysis. Illustrate with an example. 10
- (b) List and explain the Goals of Design. 10
4. (a) Explain any *two* types of Information with examples. 10

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- (b) What are various inputs to Physical Database Design ? Also, list various guidelines for Database Design. 10
5. (a) Explain any *two* Computer Assisted Audit Techniques in detail. 10
- (b) What is a Data Dictionary ? How do System Analysts use Data Dictionaries ? 10

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