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.*

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

P. T. O.

(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.

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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

(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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