

11881

MCA (Revised)
Term-End Examination
December, 2011

**MCS-014 : SYSTEM ANALYSIS AND
DESIGN**

Time : 3 hours

*Maximum Marks : 100
(Weightage: 75%)*

Note : *Question No.1 is compulsory. Attempt any three questions from the rest.*

1. (a) Draw a data flow diagrams (DFD) till 10
second level depicting the various processes,
data flow and data repositories for a
"Railway Reservation System".
- (b) What is MIS ? Explain the role of MIS in a 10
business organization. Also explain how
MIS can be used for management control
and strategic planning of an organization.
- (c) What is information ? Explain how 5
information can be classified in an organization.
- (d) What is system design ? Explain top-down 5
design with an example.
- (e) What is System Analysis ? Explain role and 10
responsibilities of a System Analyst in system
development.

2. (a) What are CASE tools ? Briefly describe various types of CASE tools and their usage. 10
- (b) What is E-R Diagram ? Construct an E-R Diagram for "Retail Management System". Make assumptions wherever necessary. 10
3. (a) What is Form ? Why proper Form design is essential for a system ? Briefly, discuss the criteria used for Form design. 10
- (b) Define an Expert System. List various components of Expert System. Also explain the characteristics of an Expert System. 10
4. (a) Identify various outputs/ products/reports associated with each and every phase of a SDLC. 10
- (b) What is a Structure Chart ? Draw a structure chart for "Banking System". Make assumptions wherever necessary. 10
5. (a) What is data dictionary ? Explain why data dictionary is used by system analyst. 5
- (b) Write short note on following : 5x3=15
- (i) Decision Support System
 - (ii) System Audit
 - (iii) Software Testing
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