

02054

MCA (Revised)

Term-End Examination

June, 2010

**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 (DFDs) fill 10
2-levels depicting the various processes,
data flow and data repositories for a
"Computer-Institute Management System".
Follow the appropriate conventions/
symbols as given in your study material.

- (b) What kind of fact finding techniques would 10
you use for investigating the information
requirements for a Multispeciality hospital,
which is presently doing manual
registrations ? Which kind of techniques do
you think will be more effective ? Also,
mention the problems you anticipate in
conducting the investigations.

- (c) Explain the role of MIS in an organisation. 10
List and explain different kinds of Information Systems.
- (d) With the help of a diagram explain different 10
components of a typical CASE tool. Also cite certain examples of CASE tools, being used at different SDLC levels.
2. (a) Describe the role of a Systems Analyst. 10
Also, list various skills that the Systems Analyst should possess.
- (b) Identify various reports/outputs/products 10
associated with each and every phase of a SDLC.
3. (a) Mention various criteria for the Report 10
design.
- (b) With the help of a neat diagram discuss 10
various components of Decision Support Systems (DSS).
4. (a) With reference to Risk Assessment and 10
management, write short notes on the following :
- (i) Quantitative Risk analysis
- (ii) Qualitative Risk analysis
- (b) Explain various issues involved in software 10
maintenance, with appropriate specific examples.

5. Write short notes on the following : **5x4=20**

- (a) Knowledge Acquisition by Expert Systems.
 - (b) Disaster recovery.
 - (c) Criteria for form design.
 - (d) System Audit.
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