

MCA (Revised)

Term-End Examination

June, 2013

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 Diagram (DFD) till 10
second level depicting various processes,
data flow and data repositories for a
"Library Management System". Follow the
conventions.
- (b) Define a Structure Chart. Draw a Structure 10
Chart for a Payroll Processing System. Also,
explain the symbols used in the chart.
- (c) Define modularity. Describe the ways and 10
means to achieve modularity. Explain with
the help of an example.
- (d) Write the importance of quality in software 10
development. List specifications of various
quality factors.

2. (a) Explain Real Time Systems and Distributed Systems. 10
- (b) Explain Structured Analysis and Structured Design. What are its goals? 10
3. (a) What are the various activities involved in the feasibility study? Discuss *any three* feasibilities need to be studied during feasibility analysis. 10
- (b) What are top-down design and bottom-up approaches? Design top-down approach for any system of your choice. 10
4. (a) Describe all the steps involved in database design for the system discussed in 1 (a) question. 10
- (b) Define CASE tools. Explain their role. 5
- (c) With the help of an example, explain a sequence diagram. 5
5. Write short notes on the following : 4x5=20
- (a) Participatory Design
- (b) Test Design Document
- (c) Coupling
- (d) Decision Tables
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