| MCS-014

02035

MCA (Revised)

Term-End Examination

December, 2012

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) List the underlying principles for a prototype design. Under which conditions, this design will be useful ? With the help of an example system, explain its approach.   **10**

    (b) Draw a data flow diagram (DFD) till second level, depicting various processes, data flow and data repositories for a "Study centre Management System". Follow appropriate conventions/symbols as were given in your study material.   **10**

    (c) Explain what kind of fact finding techniques would you use for deciding on the design of a new application/system for some "Assignments Management System" at a study centre.   **10**

(d) Explain briefly the criteria for the following: **10**
   (i)   Form Design
   (ii) Report Design

2. (a) Define a Decision Support System (DSS). **10**
      What are its characteristics ? Also list and
      explain various components of DSS.
   (b) Explain Reverse and Forward Engineering **10**
      with the help of an example for each.

3. (a) Define Internal Information. Where is it **10**
      useful ? Also discuss various sub classes of
      internal information with the help of an
      example for each.
   (b) What is Cohesion? Explain any four types **10**
      of Cohesion.

4. (a) List and explain the Goals of a Good Design. **10**
      Also discuss as set of guidelines to be
      followed basing upon the good design.
   (b) Explain various steps involved in the process **10**
      of documentation.

5. Write short notes on the following :   4x5=20
   (a) Data Dictionary
   (b) Joint Application Development
   (c) Cost Benefit Analysis
   (d) Any two types of system testing.

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