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MCS-014

MCA (Revised)

10227

Term-End Examination December, 2010

MCS-014 : SYSTEM ANALYSIS AND DESIGN

Time: 3 hours Maximum Marks: 100

(Weightage: 75%)

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

- (a) Construct an Entity Relationship Diagram
 for employee management system. Also
 construct a relational database schema for
 it.
 - (b) With the help of diagrams, explain the steps 10 in physical and logical design.
 - (c) What are the CASE tools? Explain object 10 oriented CASE tools in detail. Also explain differentiate between Reverse and forward engineering.
 - (d) Describe the various levels and components of MIS. Explain the role of a system analyst in system development.

- 2. (a) Develop a SRS for inventory management system. Give any three characteristics of SRS.
 - (b) Why is feasibility study considered an important task in system development?
 Classify feasibility and elaborate the key features of each.

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- (c) Classify Information systems and describe 4 the characterizing features, in brief.
- 3. (a) Explain in brief, the following SDLC models (with suitable diagrams): 4x2=8
 - (i) Waterfall Model. (with feedback)
 - (ii) Spiral Model.

Explain the key features of the above models.

- (b) What are the various types of 6 documentation. Give an example of each type.
- (c) Differentiate between a decision tree and a decision table. Give an example and explain the decision table.

- 4. (a) Give steps in Report design. Classify 6
 Reports.
 (b) Write short notes on the following: 4x2=8
 (i) JAD
 - (ii) data dictionary
 - (c) Why is audit important for system 6 development. Explain the types of audit.
- 5. (a) What is cost Benefit analysis. Explain any one model with a suitable example.
 - (b) What are the various types of file 4 organisation? Describe in brief.
 - (c) Differentiate between various types of coupling and cohesion. Which of these types (in each) is the best and worst and why?