MCA (Revised)

Term-End Examination

December, 2008

10765

MCS-014 : SYSTEM ANALYSIS AND DESIGN

Time : 3 hours   *Maximum Marks : 100*

(Weightage 75%)

Note :   *Question **number 1** is compulsory. Attempt **any three** questions form the rest.*

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1. (a) Explain Analysis and Design phases of   **10** Software development life cycle in detail. Give a problem statement of a problem of your choice and implement the stages of analysis and design on it.

   (b) What are the steps in a database design ?   **10** Categorize file organisation and give examples to explain the categories.

   (c) Develop and design Entity Relationship   **10** Diagram (ERD) and 0-level and 1-level DFDs for a student admission system. Design a decision tree and a data dictionary to give the design level details of the system.

	(d)	How can security be implemented in a MIS based project ?	5
	(e)	Explain any five types of feasibility study.	5
2.	(a)	List any ten components of software user documentation.	5
	(b)	Explain in detail, the analytical and management skills of a system analyst.	5
	(c)	What is an object interaction diagram. Give an example.	10
3.	(a)	Explain the structure of a typical test design document.	14
	(b)	Give a short note on Expert Systems. Where does an Expert System find its utility in a MIS organisation ?	6
4.	(a)	Explain the three types of information along with examples.	12
	(b)	Explain the four guidelines for displaying contents of Form or Report.	8
5.	(a)	List any 10 benefits of audit.	10
	(b)	Explain process modelling and data modelling.	10

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