

MCA (Revised)

Term-End Examination June, 2008

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Tir	ne : 3		Maximum Marks : 100 (Weightage 75%)	
Note :		Question number 1 is compulsory . Answer any three questions from the rest.		
1.	(a)	Design a SRS Document for a hospital management system. Also draw a DFD (context-level), (1-level) and (2-level) for the above said system.	10	
	(b)	What do you mean by Risk Management? Categorize Risks and how we can assess these risks.	10	
	(c)	What are the attributes of a good system analyst? Also explain the need of documentation in a system design.	10	
	(d)	Explain the testing phase of SDLC in detail.	10	
2.	(a)	Explain Joint Application Development (JAD) and prototyping as an approach for Information System development.	10	
	(b)	Give five tasks performed by a project team leader in software development.	5	



	(c)		Explain categories of feasibility analysis.	5
3.	(a)		Give a diagram each of a Gantt chart and Structured chart. Explain their functionality also.	5
	(b)		Explain the techniques for gathering of requirements for system analysis. Give their examples also.	10
	(c)		Differentiate between a bottom-up and a top-down design (with diagrams).	5
4.	(a)		Categorize cohesion and coupling. Also discuss the relative performance and advantages of each type of cohesion and coupling.	8
	(b)		Explain logical and physical design with appropriate diagrams.	8
	(c)		Categorize system maintenance. Explain the types in brief.	4
5.	(a)		What are the factors which concern a form and report design? What are the types of information which have to be delivered by a form or a report?	5
	(b)		Construct ERD for a School Management System. Explain it.	5
(c)	Exp	plain the following: $4 \times 2 \frac{1}{2} = 10$	Į
		(i)	Decision trees	
	,	(ii)	CASE tools	
		(iii)	MIS	
		(iv)	Expert systems	