

S.E. (Comp.) (Semester – IV) Examination, May/June 2010 SYSTEM ANALYSIS AND DESIGN

Duration: 3 Hours

Total Marks: 100

Instruction: Attempt five questions by taking atleast one question from each Module.

MODULE-1

		MODULE - I	
1.	a)	From your understanding of "System concepts and the information systems environment", do you need a computer to do systems analysis? Discuss.	5
	b)	What categories of information are relevant to decision making in business? Relate each category to the managerial level and an information system.	8
	c)	There are several considerations in deciding on a candidate system. What are they? Why are they important? Be specific.	7
2.	a)	What were the main contributions of Taylor, Maslow and McGregor to systems analysis?	5
	b)	What is meant by the analyst/user interface? Why is it a problem?	5
	c)	Why is a system proposal so crucial for system design? Explain.	5
	d)	Explain system development life cycle with neat diagram.	5
		MODULE - 2 find and a manual fe	
3.	a)	Distinguish between the following:	
		1) Brainstorming and Delphi method.	
		2) Validity and reliability.	
		3) Strategic and operational planning.	
		4) Decision table and structure chart.	8
	b)	What are data flow diagrams? How do they differ from structure charts?	4
	c)	What categories of information are available for analysis? How would one decide on the category for a given project?	4
		Summarize the advantages and limitations of interviews and questionnaires.	4
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	END - A CINEDIA	-2-	
4	. a) Draw an overall data flow	v diagram for the following	application:
	1) A travel agency maki	ng round-trip reservations	for two to Sri Lanks
	2) Ordering supplies for		
	b) Define the following term		6
	1) Data set		
	2) Aggregates		
	3) Segments		
	4) Data structure.	I - ANGGM	
	c) Distinguish between the fo		4
	1) Opportunity and sunk	C costs.	i. a) Fram your understan
	2) Direct and indirect co	010	
	3) Fixed and tangible co	p el lusvalar als nedsamch	
	4) Tangible and intangibl	e henefits	
	THE SECTION OF THE SECTION STREET, BY		mulicanos da sentra 10
		MODULE - 3	
5.	/ - The military develop	ment activities during struc	tured design. 4
	b) Explain the role of a datab	ase administrator	4
	 c) Distinguish between the fo l) Snapout and funfold for 	W Superioral Delicitoring	adi ya mwana isaW 14. 4.
	1) Snapout and funfold f	orms.	
	2) Rule and caption.	lopment hie cycle with neal	
	3) Ballot box and check-	off design, repeated	
	d) Explain and illustrate the k		hort
6.			now of a remainment of the re-
	Calling module : RECO	ORD STUDENT GRADE	C.
	2) Called module: GET	ACADEMIC PECOPD	
		VALID GRADES	
	ADD	NEW GRADES	
		RT ERRORS	by Wantersonti flowing
		CK FOR PROBATION	ii To zanogulas tudW (s
		K FOR DEAN'S LIST	decide all the shoot
	erviews and questionnaires.	of 10 and limitations of the	



	 Include the required input and output couples, showing the direction and meaning. 	
	4) In the same chart, show CHECK FOR PROBATION as a calling module and factor a called module called CALCULATE GPA. Show input and output couples.	
		10
	b) Write short notes on the following:	
	i) Data classification and zoning.	
	ii) Hierarchical structuring.	4
	c) Explain the elements of a HIPO package format. What are the various steps involved in generating a HIPO diagram?	6
	MODULE – 4	
7		
7.	n) What is quality assurance? Discuss the various levels of quality assurance.	4
	b) Distinguish between the following:	
	i) Logical and structure failure.	
	ii) RFP and vendor proposal.	
	iii) String and system testing.	6
) What is implementation? How does it differ from conversion? Elaborate.	5
	What is involved in converting files? Be assets.	5
8.	List and explain the various footons that the	
	Explain the various types of training aid and 1111 c	5
	What software criteria are considered for solvation 2.5	
) Distinguish between:	5
	i) Gantt and PERT	
	ii) Event and milestone	
	iii) Task and activity	
	iv) Precedence and successor relationships.	
	v) Data security and integrity.	
	5 Data security and integrity.	