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Bachelor in Information Technology (BIT)

Term-End Examination

December, 2007

CSI-02 : SYSTEMS ANALYSIS

Time	: 3	Hours Maximum Mark	s
Note	•	Section A is compulsory. Questions 1 to 10 of Section A carry one mark each Questions 11 to 14 carry 5 marks each. Answer any three questions from Section B. Each question of Section B carries 15 marks.	h.
		SECTION A	
1.	level	is a software engineering task that bridges the gap between system requirements engineering and software design.	
	(a)	Coding	
	(b)	Testing	
	(c)	Maintenance	
	(d)	Requirements Analysis	
		1	
2.	Soft	ware is built to process	
	(a)	data	
	(b)		
	(c)	anything	•
	(d)	'C' language programs only	
		represents the manner in which data and control change as each moves	
3.	thro	ough a system.	1
	(a)	Arrows	
	(b)	Data flow	
	(c)	Information flow	
	(d)		
	(u)		1
4.	- 1	represents the internal organization of various data and control items.	
	(a)	Boxes	
	(b)	Information structure	
	(c)	Data flow	
	(d)	Information flow	





5.	The is the first technical representation of a system.	
	(a) Design model	
	(b) Analysis model	
	(c) Documentation	
	(d) Meta-data	
6.	answers a set of specific questions that are relevant to any data processing application.	1
	. (a) Functional modeling	
	(b) Data modeling	
	(c) Any modeling	
	(d) Flow charts	
7.	define(s) the properties of a data object.	1
	(a) Table	-
	(b) Attributes	
	(c) Variable	
	(d) Constant	
8.	The design should be traceable to the model.	
	(a) Functional	1
	(b) Data	
	(c) Analysis	
	(d) None of the above	
9.	of data. is a representation of the logical relationship among individual elements	
	(a) Data structure	1
	(b) Any software	
	(c) Flow chart	
	(d) DFD	

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10.	is a measure of interconnection among modules in a software structure.	1
	(a) Cohesion	1
1	(b) Coupling	
	(c) Lines of code	
	(d) Size	
11.	Give any five examples of software development projects which are suitable to be developed using Spiral model. Justify your answer.	5
12.	To D 1' Partings Recognition System. Water appunipulation	5
13.	Write at least two reasons why one activity should precede another activity before the second activity can begin.	5
14.	Explain any two errors that may occur during Requirements analysis phase of a	5





18.

SECTION B

Ansı	wer any three of the following questions. Each question carries 15 marks.	
15.	Draw detailed (at least upto 3 levels) Data Flow Diagrams for various processes involved in a Pay-roll Processing System. Make necessary assumptions.	15
16.	Write the problem definition of a software project which is amenable for development, using Spiral model. Justify your answer.	15
17.	Explain any five attributes of a Systems Analyst.	15

Why do Systems Analysts use DFDs? Write any three rules for drawing proper DFDs.

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