

Advanced Diploma in Information Technology (ADIT) / Bachelor in Information Technology (BIT)

Term-End Examination

June, 2007

CST-204: ADVANCED TOPICS IN SOFTWARE ENGINEERING

Time: 3 Hours Maximum Marks: 75					
Note:		There are two sections in this paper. Section A is compulsory. Questions number 1 to 10 carry 1 mark each. Questions number 11 to 14 carry 5 marks each. Answer any three questions from Section B. Each question of Section B carries 15 marks.			
			SECTION A		
1.	·	is a collection of programs written to serve other programs.			
	(a)	System software			
	(b)	Application software			
	(c)	Any program			
	(d)	Only Real-time softwa	are		
2.	·. · · .	is a software p	process model.		
	(a)	Waterfall model	(b) Proto	otyping model	
	(c)	Spiral model	(d) All o	f the above	
3.	LC	OC stands for	•		
٠.	(a)	Lines of Code	(b) Lin	es of Compiler	
	(c)	Laws of Code	(d) Lin	es on Code	



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4.	understand and manage					
	(a) cost (b) complexity	of software				
	(c) human resources (d) uncertaint	y				
5.	is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks.					
	(a) Analysis					
	(b) Design					
	(c) Coding					
	(d) Software project scheduling					
6.	is a software quality assurance activity per	formed by software engineers.				
	(a) Requirements analysis (b) Formal tec	hnical review				
	(c) Code walk-throughs (d) Compilation					
7.	7. "PERT" is a term associated with					
	(a) Feasibility analysis					
	(b) Software testing					
	(c) Project scheduling					
	(d) Program productivity					
8.	is a repository that contains descriptions of all data objects consuproduced by the software.					
	(a) Data Dictionary (b) Data Flow	Diagram				
	(c) Flow Chart (d) Algorithm					



J.	"blueprint" for constructing the software.			
	(a) Requirements Analysis			
	(b) Software Design			
	(c) Software Quality			
	(d) Software Cost Estimation			
10.	is simply how easily a computer program can be tested.			
	(a) Software testability (b) Documentation			
	(c) Indenting (d) Complexity			
11.	Assume that you are a Systems Analyst and need to develop a Railway Reservation System. Write at least five requirements for the system.			
12.	How will you estimate the effort that needs to be put to successfully complete a project?			
13.	Explain all phases of Linear Sequential Model.			
14.	What is a Gantt chart? Explain with an example.			
	SECTION B			
Ansi	wer any three questions from this section.			
15.	Give five examples of software projects that would use Prototyping model for development. Justify your answer.			
16.	(a) How is adaptation criteria defined for any S/W project? What is its significance?			
	(b) Make an E-R diagram for a "School Management System".			



- 17. Explain the following w.r.t. S/W project development:
 - (i) Problem based estimation
 - (ii) Project coordination techniques
 - (iii) S/W sizing
 - 18. Differentiate between the following:
 - (i) S/W reliability and Software feasibility
 - (ii) Adaptive maintenance and Corrective maintenance
 - (iii) White box and Black box testing