

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

Term-End Examination

December, 2006

CST-204 : ADVANCED TOPICS IN SOFTWARE ENGINEERING

Time: 3 Hours				Maximum Marks: 75		
Not	e:	There are two section 1 to 10 carry 1 ma Answer any three qu 15 marks.	rk each. Que	stions number 11 to	14 carry 5 marks 6	each
		SECTION A		ON A		
1.	A _ Soft	is a person ware Development Life	who performs Cycle.	s systems analysis d	uring the phases of	1
	(a)	Systems Analyst	(b)	Programmer	en e	
	(c)	Tester	(\mathbf{d})	All of the above	ent single of the	
2.	In _ at a	, the details of higher level.	a task at one	level are hidden from	the use of that task	1
	(a)	recursion	(b)	abstraction		**
	(c)	procedure	77. z · · (d)	any program		
3.	Unr ther (a)	m. deadlines	are costly b	pecause unnecessary ef	fort is made to meet	1
	(c)	effort estimates	(d)	None of the above		
4.	the	control is best w		evelopment is the most	t important goal and	1
	(a)	Decentralised	(b)	Centralised		
	(c)	Any	(d)	None of the above		



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5.	is a set of activities designed to evaluate the process by which products					
	are developed or manufactured.	1				
	(a) SRS					
	(b) SQA					
	(c) Design specification					
	(d) Test plan					
6.	is the degree to which the software can function correctly in the presence of invalid inputs or stressful environmental conditions.					
	(a) Program correctness (b) Software reliability					
	(c) Software robustness (d) Reusability					
7.	SQL is a generation language.	1				
	(a) third (b) fourth					
	(c) second (d) first					
8.	The maximum expenditure on a software project will be for					
	(a) analysis (b) design					
	(c) testing (d) maintenance					
9.	charts can help a manager identify schedule bottle-necks immediately, even mechanically.					
	(a) Gantt (b) PERT					
	(c) Flow (d) All of the above					
10.	For a user who does not have sufficient expertise in software, the best generation of languages to use are that of generation.	1				
	(a) first (b) second					
	(c) third (d) fourth					
11.	Assume that you are a System Analyst and want to develop a Student Admission System. After analysis phase, produce at least six requirements for the Student Admission System.					
		5				
12.	Explain five reasons of failure of CASE tools.	5				



- 13. What is software testing? Explain different software testing approaches.
- 14. With the help of suitable diagram, explain the Spiral model of software development. Also mention its advantages.

SECTION B

Answer any three questions from this section.

- 15. Give five examples of software projects that would use Prototype model for development. Justify your answer.
- 16. Explain the structure of a Controlled Centralised team. Write the seven factors that should be considered when planning the structure of a software engineering team.
- 17. Define the term "Software Quality". Explain any seven qualities of a software product.
- 18. Explain any ten sources of problems from users' point of view that may lead to software crisis.