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CST-204

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

Term-End Examination June, 2010 CST-204 : ADVANCED TOPICS IN SOFTWARE ENGINEERING

Time : 3 hoursMaximum 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

 ______ is the establishment and use of sound 1 engineering principles in order to obtain economically software that is reliable and works efficiently on real machines.

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- (a) Hardware Engineering
- (b) Software Engineering
- (c) Testing Only
- (d) None of the above

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- Rapid Application Development is an 1 incremental software development process model that emphasizes ______ development cycle.
 - (a) Extremely short
 - (b) Long
 - (c) Complex
 - (d) None of the above
- In _____, the data objects defined in the 1 data modeling phase are transformed to achieve the information flow necessary to implement a business function.
 - (a) Business modeling
 - (b) Process modeling
 - (c) Black Box Testing
 - (d) White Box Testing
- 4. The _____ combines elements of the linear 1 sequential model, applied repetitively, with the iterative philosophy of prototyping.
 - (a) Incremental model
 - (b) Spiral model
 - (c) Stress testing
 - (d) None of the above

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The ______ is an evolutionary software process model that couples the iterative nature of prototyping with the controlled and systematic aspects of the linear sequential model.

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(a) Spiral model

(b) Regression Testing

(c) Both (a) and (b)

(d) None of the above

6.

5.

A _____ provides the framework from 1 which a comprehensive plan for software development can be established.

(a) Software product

(b) Software Process

(c) SQA

(d) All of the above

 A ______ software engineering team has no 1 permanent leader.

(a) Controlled decentralized

(b) Controlled centralized

(c) Democratic decentralized

(d) None of the above

8. LOC stands for _____.

(a) Lines of code

(b) Law of code

(c) Lines of computation

(d) None of the above

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9.	FP stands for		1
	(a)	Function Point	
	(b)	Function Progress	
	(c)	Final Point	
	(d)	None of the above	
10.		activity accounts for more effort than	1
	any other software engineering activity.		
	(a)	Software Maintenance	
	(b)	Software Analysis	
	(c)	Software Design	
	(d)	None of the above	
11.	Explain Software Configuration Management.		5
12.	What is a Gantt chart ? Give an example.		5
13.	What is Quality Assurance.		5
14.	Explain function Oriented metrics.		

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SECTION - B

Answer *any three* questions from this section :

- 15. Explain Water Fall Model, in detail.15
- **16.** Explain any three types of risks. **15**
- 17. Define the term "Testing". Explain any 4 15 characteristics that lead to testable software.
- 18. Explain the differences between Verification and 15 Validation.

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