6H6

(6 pages)

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B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2013.

Fifth Semester

Computer Application - Main

Paper VI - SOFTWARE ENGINEERING

(For those who joined in July 2008 to 2011)

Time: Three hours Maximum: 75 marks

PART A - (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

- 1. Deciding in detail how the user is to interact the system is called ————
  - (a) systems engineering
  - (b) software architecture
  - (c) detailed design
  - (d) user interface design

2.	An abstraction of a set of subclasses						
	(a)	variable	(b)	attribute			
	(c)	association	(d)	superclas	s		
3.	Those who buy and coftware are called						
	(a)	Customer, and users					
	(b)	Managers					
	(c)	Recources					
	(19)	16 igineers					
40	measures the amount of time that a server is running and available to respond to users.						
	(a)	availability	(b)	reliability	7		
	(c)	maintainabili	ty (d)	none			
5.		UML has a detailed — describing the meaning of the various notations.					
	(a)	Semantics	(b)	Syntax			
	(c)	State	(d)	Activity			
6.	A diagram shows the sequence if message exchanged by the set of objects performing certain task						
	(a)	sequence	(b)	collabora	tion		
	(c)	class	(d)	state			
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7.	achie		fferen	igns that could be it sets of alternatives space.			
	(a)	design	(b)	modelling			
	(c)	alternative	(d)	none			
8.	A g		p	rovides information			
	(a)	database	(b)	all			
	(c)	module	(d)	abstraction			
9.	An ————————————————————————————————————						
	(a)	absolute	(b)	off-by-one			
	(c)	relative	(d)	none			
10.	norm		one	occurs when here is of something, but			
	(a)	null					
	(b)	singleton					
	(c)	non-singleton					
	(d)	None					
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## PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions choosing either (a) or (b).

11. (a) What is Software Engineering? Explain.

Or

- (b) Discuss the types of evolutionary projects.
- 12. (a) What is a requirement?

Or

- (b) Define the problem and the scope for a system that handles university degree requirements and registration. Also develop a requirements statement.
- 13. (a) What are the essentials of UML class diagrams? Explain.

Or

- (b) Write notes on labeling associations.
- 14. (a) Discuss on Design as a Series of decisions.

Or

(b) Write notes on parts of a system.

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[P.T.O.]

15. (a) Explain how to test for incorrect logical conditions.

Or

(b) Explain use of inappropriate standard algorithms.

PART C —  $(5 \times 8 = 40 \text{ marks})$ 

Answer ALL questions choosing either (a) or (b).

16. (a) Explain software quality.

Or

- (b) What are the activities commonly found in software engineering project? Explain.
- 17. (a) What are non functional requirements? Explain the different categories of non functional requirements? Explain.

Or

- (b) Summarize the functional require regions for an embedded software system which allows a user to control a microwave over
- 18. (a) Explain generalization

Or

(b) Explain the more advanced features of class diagram 'Agg\_\_\_stion' in detail.

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19. (a) Explain the technique for making good design decision.

Or

- (b) Explain software architecture.
- 20. (a) Explain the most common kinds of defects found in ordinary algorithm.

Or

(b) Explain the defects in numerical algorithm.