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(2033)

UG (CBCS) IIIrd Year Annual Examination 3343

B.A. COMPUTER APPLICATION

(Software Engineering)

(SEC-4)

[Common with Computer Science and B.Sc. Physical Science (COMP303TH)]

Paper: COMP 308 TH

Time: 3 Hours]

[Maximum Marks: 70

Note: - Attempt one question each from the Parts-B, C, D and E. Part-A is a compulsory question.

Part-A

(Compulsory Question)

- 1. (i) Which is NOT a software characteristic ?
 - Software does not wear out. (a)
 - Software is flexible. (b)

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(1)

Turn Over

Software is not manufactured. (c) Software is always correct. (d) Which of the following is not a software process model? (a) Linear sequential model (b) Prototyping model (c) The spiral model COCOMO model (d) Which process model is also called a classical (iii) life-cycle model? (a) Waterfall model (b) RAD model (c) Prototyping model

(ii)

(d) Incremental model

(iv) SRS stands for:							
(a) Software Requirements Specification							
(b) System Requirements Specification							
(c) Systematic Requirements Specification							
(d) None of these							
(v) Which one is the measure of software							
complexity?							
(a) Number of line of codes (LOC)							
(b) Number of man years							
(c) Number of function points (FP)							
(d) All of these							
(vi) The relationship of data elements in a module							
is called:							
(a) Coupling							
(b) Cohesion							

- (c) Modularity
- (d) None of these
- (vii) of a system is the structure or structures of the system which comprise software elements, the externally visible properties of these elements and the relationship amongst them.
 - (a) Software construction
 - (b) Software evolution
 - (c) Software architecture
 - (d) Software reuse
- (viii) Which is not a functional testing technique?
 - (a) Boundary value analysis
 - (b) Decision table
 - (c) Regression testing
 - (d) None of these

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(ix)	Cyclomatic complexity is equal to:								
	(a)	Number of independent paths							
	(b)	Number of paths							
	(c)	Number of edges							
	(d)	None of these							
(x)	Test	ing of software with actual data	and in						
	actual environment is called:								
	(a)	Alpha testing							
	(b)	Beta testing							
	(c)	Regression testing							
	(d)	None of these	1×10=10						
Part-B									
(a)	Wha	at do you mean by the Waterfall n	nodel of						
	soft	ware development? Explain.							
(b)	Describe Computer based systems with suitable								
	exar	mples.	8,7						
A-5	43	(5)	Turn Over						

2.

3. What are functional and non-functional requirements?	
Explain with two suitable examples.	15
Part-C	
4. Differentiate between the following:	
(a) Coupling and Cohesion	
(b) Data Design and Architecture Design	8,7
5. What do you mean by Real time software design ?	
Describe the importance of these systems in detail.	15
Part-D	
6. Describe how SCM is a major part of Software	
Development using suitable examples. Also explain	
the SCM standard.	15
	15
the SCM standard.	7,8

Part-E

8.	What do you mean	by	Software	Testing	?	Describe	
×	testing techniques in detail.						15

- 9. (a) Explain the concept of debugging with suitable examples.
 - (b) What do you mean by reverse engineering? 7,8

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(7)