Total No. of printed pages = 11

Co-603/SE/6th Sem/2018/J/A

SOFTWARE ENGINEERING

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

PART-A

Marks - 25

Choose the correct options from the following questions: $1\times25=25$

- 1. Who writes the Software Requirement Specification (SRS) Document?
 - [A] System Developer
 - [B] System Tester
 - [C] System Analyst
 - [D] None of the above

- 2. What is the final outcome of the requirements analysis and specifications phase?
 - [A] Drawing the data flow diagram
 - [B] The SRS document
 - [C] Coding the object
 - [D] The user manual
- 3. Which of the following is not included in a SRS document?
 - [A] Functional requirements
 - [B] Non-functional requirements
 - [C] Goals of implementation
 - [D] User manual
- 4. Who among the following expects cost estimation from the SRS document?
 - [A] Project manager
 - [B] User document writer
 - [C] Software developers
 - [D] Maintenance engineers

5.	The	primary	tool	used	in	structure	design	is
		Data fl						

- [B] Module
- [C] Structure Chart
- [D] Program Flowchart

6. During the maintenance phase

- [A] system requirements are established
- [B] system analysis is carried out
- [C] programs are tested
- [D] None of the above

7. The phase of system developers associated with creation of the test data is

- [A] System Analysis
- [B] Physical Design
- [C] System Acceptance
- [D] Logical Design

8.	ting can be applied to:	
	[A]	requirements
	[B]	analysis
	[C]	design
	[D]	code
9.		ich one of the following testing is performed user?
	[A]	Acceptance testing
	[B]	Unit testing
	[C]	Compatibility testing
	[D]	None of the above
10.	Whi	te box testing can be started
	[A]	after SPS creation
	[B]	after designing
	[C]	after programming
	[D]	after installation
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- 11. The type of software testing in each module is tested in which each module is tested along in an attempt to discover any errors in its code known as
 - [A] Integration testing
 - [B] Acceptance testing
 - [C] Mutation testing
 - [D] Unit testing
 - 12. Which technique is applied for usability?
 - [A] White box
 - [B] Black box
 - [C] Grey box
 - [D] Combination of all of the above
 - 13. What is the main purpose of integration testing?
 - [A] Design errors
 - [B] Interface errors
 - [C] Procedure errors
 - [D] None of the above

14.		is an indication of the relative			
	inter	dependence among modules.			
	[A]	Cohesion			
	[B]	Coupling			
	[C]	Modularity			
	[D]	Cohesion and Coupling			
		A STATE OF THE PARTY OF THE PAR			
15.		is a white box testing technique			
	first proposed by Tom McCabe.				
	[A]	Equivalence partitioning			
	[B]	Basis Path Testing			
	[C]	Boundary Value Analysis			
	[D]	None of the above			
16.	Desi	gn phase is followed by			
	[A]	Coding			
	[B]	Testing			
	[C]	Maintenance			
	[D]	None of the above			

17.	Where is the prototyping model of software development well suited?				
	[A]	When requirements are well defined			
	[B]	For projects with large development teams			
	[C]	When a customer cannot define requirements clearly			
	[D]	None of the above			
18.	OCOMO model is				
	[A]	Common Cost Estimation Model			
	[B]	Constructive Cost Estimation Model			
	[C]	Complete Cost Estimation Model			
	[D]	Comprehension Cost Estimation Model			
19.	Beta	Testing is done at			
	[A]	User's End			
	[B]	Developer's End			
	[C]	User's and developer's End			
	[D]	None of the above			

20.	. The testing in which code is checked, called				
	[A]	Black Box testing			
	[B]	White Box testing			
	[C]	Red Box testing			
	[D]	Green Box testing			
21	. Pro	totyping in software process may involve			
	[A]	Throw-away prototyping			
	[B]	Evolutionary			
	[C]	Both [A] and [B] above			
	[D]	None of the above			
22.		soehm's spiral model, each loop in the spiral esents of the software process.			
	[A]	Phase			
	[B]	Design			
	[C]	Documentation			
	[D]	None of the above			

- 23. A good specification should be
 - [A] Unambiguous
 - [B] Distinctly specified
 - [C] Functional
 - [D] All of the above
- 24. Design phase is followed by
 - [A] Coding
 - [B] Testing
 - [C] Maintenance
 - [D] None of the above
- 25. The model which estimates the total effort in terms of person, months of technical project staff is
 - [A] Spiral model
 - [B] Waterfall model
 - [C] Win spiral model
 - [D] COCOMO model

PART-B

Marks - 45

Answer any three questions.

1.	(a)	What do you mean by software crisis?	3
	(b)	What is SDLC?	2
	(c)	What are the differences between clawater fall model and iterative water model?	
	(d)	Explain about Prototype model.	8
		Or	
		Explain about Spiral model.	
2.	(a)	What are the qualities of a Project Manag	ger?
	(b)	What are the different activities of Pro- Planning?	ject 5
	(c)	Explain about Risk Management.	6
3.	(a)	Explain the different types of cohesivene	ss ? 8
	(b)	What do you mean by white box testing	? 3
	(c)	Write about system testing.	4
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4.	(a)	Explain	about COCOMO	model.	
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(b) What is DFD? What is context diagram?

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- (c) What are the differences between PERT and GANTT chart?
- 5. Write short notes any three:

5×3=15

- (i) Reliability matric
- (ii) Delphi Cost Estimation
- (iii) Unit testing
- (iv) SQA.

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