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西安电子科技大学考试时间 120 分钟

试			題		
题号	I	II	III	IV	总分
分数	30	10	30	30	

1. 考试形式: 闭卷■ 开卷□ A卷

2. 考试日期: 2020 年 8 月 21 日(答题内容请写在装订线外)

[.	Single	Choice	(2 *	15 =	30	points)
		CHOICE	\ -		U	Politics

_, ,	20 21-8-0 01-01-0 (2					
1.	Software is a set of instructions (programs), (), and documents.					
	A. data	B. test	C. process	D. architectures		
2.	Software engine	eering means the appli	cation of a systematic	, measureable and		
	() approach to the development, operation, and maintenance of software.					
	That is, the application of engineering to software.					
	A. reliable	B. disciplined	C. readable	D. traceable		
3.	3. The () is the company, organization, or person who is building the softw					
	system for the customer.					
	A. user	B. coder	C. developer	D. designer		
4.	An () is part of the project that takes place over a period of time.					
	A. milestone	B. activity	C. schedule	D. timetable		
5.	5. We can think of a set of ordered tasks as a process, a series of steps invol-					
	constraints () and resources that produce an intended output of some kind.					
	A. steps	B. testing	C. coding	D. activities		
5. A requirement is an expression of software ().						
	A. ability	B. lifecycle	C. behavior	D. product		

7.	Design is the creative process of figuring out how to implement all the customer's requirements; the () plan is called the design.						
	A. resulting	B. final	C. document	D. product			
8.	In client-server	architecture, the ()	component offer serv	vices, and the client			
	access them usi	access them using a request/reply protocol.					
	A. peer	B. server	C. pipe	D. filter			
9. 7	The () model is	a standard for softwa	re process quality.				
	A. CMM	B. CPM	C. ROI	D. WBS			
10.	Design principle	s are guidelines for () our system's require	ed functionality and			
	behavior into modules.						
	A. decomposing	5	B. testing				
	C. understandin	g	D. reading				
11.	Modularity, also	called (), is the prin	nciple of keeping separ	rating			
	the various unrel	ated aspects of the sys	stem.				
	A. separation co	oncern	B. process concern				
	C. data concern		D. performance conc	ern			
12.	In pipe-and-filter style, the filter functions is to pass the input data through a						
	sequence of data-transforming component, and the () simply transmit data						
	from one filter	to the next without mo	odifying the data.				
	A. filter	B. pipe	C. peer	D. client			
13.	The () method	is used to express the	software requirement				
	A .use case diagram		B. beta test				
	C. black box		D. white box				
14.	No matter how what language is used, each program component involves at						
	least three major aspects, () algorithms and data structures.						
	A. parameters	B. units	C. interfaces	D. control			
	structures						
15.		d fault occur when the	e data structures are fil	led past their			
	specified ().						
	A. function	B. volume	C. performance	D. capacity			

- 1. () When the process involves building of some product we sometime refer to the process as life cycle.
- 2.) The critical path is a path that the slack time as every node is non-zero.
- 3. () DFD is used in the stage of software testing.
- 4. () Any work done to change the system after it is in operation is considered to be maintenance.
- () In acceptance test stage, an in-house test is beta test, and the alpha test is out-house test.
 -) Software Requirement Specification is read by developer. 6.
 - 7. () Head Comment Block is a descriptive material written directly within code.
 - () Black-Box test methods are usually used to test program's internal structures.
 - 9. () A WHILE-DO construct do not wear out after 10000 loops, and the semicolons do not fall off the end of statement.
 - 10. () In Bottom-Up integration test, we should write driver components.

III. Questions (6 *5= 30 points)

- 1. Describe the Waterfall model and its advantages and disadvantages.
- 2. Briefly describe the functions of three core constructs of ERD (Entity Relation Diagram).
- 3. Briefly describe functions of the Filer and the Pipe in Pipe-Filter architecture style, respectively.
- 4. Give out the contents of Head Block Comment.
- Briefly describe the concept of corrective maintenance.

IV. Problem Solving (10 * 3= 30 points)

1. Figure 1 is an activity graph. Find out the critical path(s).

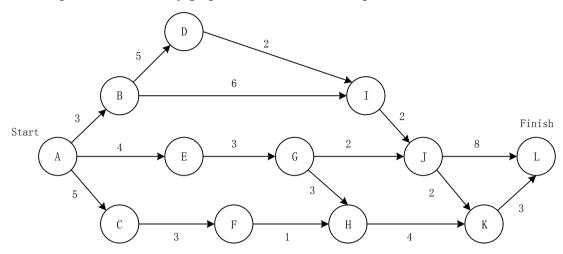


Figure 1 An Activity Graph

2. Figure 2 is the flow chart of a component. Give out the test case for the branch test.

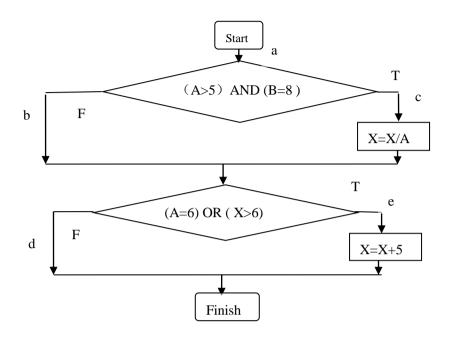


Figure 2 A Flow Chart

3. Figure 3 is the control flow of a component. Find out all the paths of path testing.

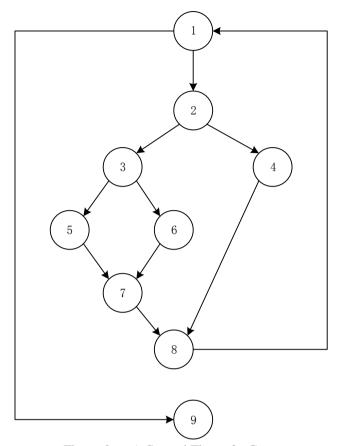


Figure 3 A Control Flow of a Component