四川大学期末考试试题 (闭卷)

(2018~2019 学年第 2 学期)

A卷

课程号:	程号: 311232030 课程名称: 软件工程导论				任课教师:				
适用专业	年级:	次件工程 2	2017级		学号:		姓名:		
 1、已接要 2、不带手 	求将考试禁止 机进入考场;	上携带的文具)	用品或与考试	川大学本科等 有关的物品方	承诺 生生考试违纪作 女置在指定地点 关条款接受处理	₹;	(修订)》,郑 考 生签名 :	重承诺:	
题 号	─ (2	20%)	二(15%	6)	三(5%)		四(15%)	五(4	5%)
得 分									
卷面总分			阅卷时间						
••••••	注意事项: 1. 请务必将本人所在学院、姓名、学号、任课教师姓名等信息准确填写在试题纸和添卷纸上; 2. 请将答案全部填写在本试题纸上; 3. 考试结束,请将试题纸、添卷纸和草稿纸一并交给监考老师。 ———————————————————————————————————								
1	2	3	4	5	6	7	8	9	10
1. Which of the following characteristics should not be "Golden Rules" of a GUI? (A) make the content easy understand (B) place the user in control (C) reduce the user's memory load (D) make the interface consistent 2. The waterfall model of software development is ((A) An old-fashioned model that cannot be used in a modern context (B) A good approach when a working program is required quickly (C) A reasonable approach when requirements are well defined (D) The best approach to use for projects with large development teams									

3.	Which one of following is not a UML diagram used creating a system analysis model? (A) activity diagram (B) class diagram (C) dataflow diagram (D) state diagram
4.	Three major categories of risks are () (A) project risks, technical risks, business risks (B) business risks, personnel risks, budget risks (C) planning risks, technical risks, personnel risks (D) management risks, technical risks, design risks
5.	Which of the items listed below is not one of the software engineering layers? (A) Tools (B) Methods (C) Manufacturing (D) Process
6.	Which of these are the 5 generic software engineering framework activities? (A) analysis, planning, designing, programming, testing (B) analysis, designing, programming, debugging, maintenance (C) communication, risk management, measurement, production, reviewing (D) communication, planning, modeling, construction, deployment
7.	Which of the following is not an objective for building an analysis model? (A) Establish basis for software design (B) Describe customer requirements (C) Fine set of software requirements that can be validated (D) Develop an abbreviated solution for the problem
8.	 What is the goal of software engineering? ((A) The development of software that conforms to international standards (B) The replacement of hand coding by automatic programming (C) The application of engineering techniques to software production (D) The production of fault-free software that satisfies the user's needs and that is delivered on time and within budget

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床性石机.	扒什工性守比	111 床 41 川 .	洪攻 刈朱仪	土湖斛 夕以丁	浦尉	平亏.	

姓名:

教务处试题编号: 311-11

9. What is the no	rmal order of activiti	es in which tradition	nal software testing i	s organized?				
(A) integration testing, unit testing, system testing, validation testing								
(B) unit testing, integration testing, system testing, validation testing								
(C) unit testing	(C) unit testing, integration testing, validation testing, system testing							
		ing, integration testi	-					
10. Which of the	following is not one	of the four principle	s used to guide con	nponent-level				
design? ()							
(A) Open-Clos	ed Principle							
(B) Reduce Co	mplexity Principle							
(C) Dependen	cy Inversion Princip	le						
(D) Interface S	egregation Principle	Э						
评阅教师 得分	二、多项选择题	(本大题共5小题,	每小题3分,共15	分)				
	提示: 在每小题列出	的多个备选项中有二个至	至五个是符合题目要求的	」,请将其代码填写在				
下表中。错选、多选、少选或未选均无分。								
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	2			5				
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1. () are s (A) Identification (B) version co (C) change co (D) configuration (E) reporting (F) repository 2. Effective softwate (A) people	software configuration ntrol ontrol on auditing	on management tas	sks.	5				
1. () are s (A) Identification (B) version co (C) change co (D) configuration (E) reporting (F) repository 2. Effective softwate (A) people (B) problem	software configuration ntrol ontrol on auditing	on management tas	sks.	5				
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3. () are to (A) architectural (B) data (C) project scot(D) interfaces		in the design model	?	
	nce errors	errors in which of the	e following cate	gories ().
(A) Behaviora(B) Class-bas(C) Data elem	ed elements nents based elements 三、判断改错题	f a requirements mo (本大题共 5 小题, 吴打×,将其结果填写在	每小题 1 分,共	失 5 分)
1	2	3	4	5
	s an important designs to elements in the les.		ereas coupling r	efers to elements in
3. Boundary valu	e analysis can only	be used to do white	-box testing. (<u> </u>
A stakeholder development.	is anyone who will p	ourchase the comple	eted software sy	rstem under

5. Use-case actors are always people, never system devices. (

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评阅教师	,,,,,	四、	问答题	(本大题共1	小题,	每小题 15 分,	共15分)。

What is software engineering in your opinion? (共15分)

评阅教师	得分	五、	设计分析题	(本大题共2小题,	共45分)。

1. A short program section is shown in the following:

```
int a, b;
int x=0;
int y=0;
if(a>b)
{
    x = a-b;
}
else {x = b-a;}
while (b<0)
{
    y += b;
    b++;
}</pre>
```

- (1) Draw a picture to show the control flow graph. (5 分)
- (2) Compute McCabe cyclomatic complexity (环路复杂度). (4分)
- (3) To complete the basis path testing, list all of independent paths and test cases. (6 β)

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姓名:

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2. Please answer the following questions after finishing reading:

The department of emergence management has decided to develop an accident management system [AMS].

After communicating with customers, we get the following user scenario:

Sce	cenario name: Warehouse On Fire [仓库]					
Part	Participating actors instances:					
Bob	Bob, Kitty: Field Officer [实地巡逻人员] John: Dispatcher [突发事件中心调度员]					
Sce	ne description:	L				
1.	Bob, driving down main street in his patrol car, notice smoke coming out of a warehouse. His partner, Kitty, activates the "Report Emergency" function from her AMS laptop[便携式电脑].					
2.	Kitty enters the address of the building, a brief description of its location (i.e., northwest corner), and an emergency level. In addition to a fire unit, she requests[申请] several paramedic[医务人员] units on the scene, given that the area appears to be relatively busy. She confirms her input and waits for an acknowledgment.					
3.	John, the Dispatcher, is alerted to the emergency by a beep of his workstation. He reviews[查看] the information submitted by Alice and acknowledges the report. He allocates a fire unit and two paramedic units to the Incident site[场所] and sends their estimated arrival time(ETA) to Kitty.					
4.	Kitty receives the acknowledgement and the ETA	(estimated arrival time).				

You'll have to make a number of assumptions about the manner in which a user interacts with this system.

- (1) Please draw a UML use case diagram for the AMS. (10 分)
- (2) Develop a class model for the AMS. (10 分)
- (3) design its user interface (exclude the login interface). (10 分)