西安电子科技大学

考试时间_120_分钟



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	题号	-	= 1		Ξ		总分	
	分数			·				
	1.考试形式:	闭卷; 2.考试	日期: 2020	0年8月	日; 3.本	试卷共 3 大是	厦,满分100分	·•
	班级	学号		姓名	1	任课教师		
	NOTE: Write	all answers on	the answer	cheet				
	Q.1: Multiple (一回西	_	SIRCE.				
	1. A system _A	_ is usually has	s the highe	er priority	on key de	cisions in in	formation syste	em
	development.							
	¥ ₹ A. owner	-		В. с	lesigner			
	A C. user	Bark-off	mformatt	on syste	malyst wit	h supplie	rs.	
	2 system	is are tront-office	ce informat	ion system	is which si	ipport busin	ess functions th	iat
	extend out to the			and the		- 4		
Narbeting/Sale	7475-A. Inventory C. Customer	management &	6	D 1	<u>Manufactur</u>	चंत्रं arru	+ Financia	
-0	3. "A standard sys			methodo	logy' nurc	hased or dev		
际	belongs to CMM	level C	方法が	3			one page 1, whiteher	
5: Optimizing it	化级 A.I 初始级	Initial	1417	B, 2	papentable	·使复数		
		己定义级		D. 4	Manage	d LM理红		
1世代节理	C. 3 Defined 4. A	activity of doc	umenting, r	managing,	and continu	ually improvi	ng the process o	of
F 634 54	systems developm	nent.			顶的管理	Scope. Plan.	staff. direct.	control
之后,你	A. project	2		В.(р	rojec) mana	agement is	staff direct. the process of	. '
件天	System de	velopment活动力	迅最终败	SAM PD	rocessman	agement 2	上管理	
-	integrate						ations as deemed	1
长的浙江	appropriate to the	-			-	nalysis MVA		
长的洲东	JE A. Informatio						内 -快速繁梅	Dath ix
DAG PATE	6. When perform	ing "observation	" fact-findi	ng method	B is	NOT appropr	か 「トピーカイツ riate?	reverse
	A/obtain per	カラナ mission from ap	propriate si	upervisors	or manager	s 180	89	reverse
观察指南	Don't make some	assumptions	不電光入	カナ ふき	Zithipiak			
Z. Z. Z. V	C/keep a low	profile AF	1/個	T LE	X I IVI PCIS			
	don't focu	s heavily on trivi	al activities	抓住美	E1\$,
	\mathbf{O}	不重	36		_			
		II.	畅.					
	take notes	BHIR						
	迫知核观智者). Pa	ge 1 of 4				
	不要打断别人							
	, = 10 10 10 10	` '						

从problem到 possible caus 域机的针形型。 可题的针形段:case-effect analysis 因果的析 从因数到可能畅原因。 Aproblem 31) possible causes A is a graphical tool used to identify, explore, and depict problems and the causes and (effects of those problems. A. Ishikawa (Fishbone) diagram 因果が同。 B. PERT chart C. Gantt chart D. Workflow diagram defines the minimum and maximum number of occurrences of one entity that may be related to a single occurrence of the other entity. A. Subsetting criteria 山頂頂 (此の初火場) B. Generalization 12行 C. Cardinality 基效 极民铁. D. Degree 居 is a process model used to depict the flow of data through a system and the work or processing performed by the system. B. Data flow diagram DPD 数据流图(活构化分析中使 A. Flow chart 伪程图 C. Activity diagram D. E-R diagram (倍息1程) 1E 10. A is a measure of (how well) the solution will work in the organization. It is also a measure of how people feel about the system/project.. A. Operational feasibility 1916. B. Economic feasibility 数字与行业。 C. Schedule feasibility Pana D. Technical feasibility 75木 11. A(n) briefly relationship is used to model the association between two classes: To indicate that when a change occurs in one class, it may affect the other class. To indicate the association between a persistent class and a transient class. B. dependency R. R. 12. The <u>B</u> approach is an iterative process involving a close working relationship between contam-a the designer and the users, to generate a small-scale, incomplete, but working sample of a desired system.) 特於能够水平分享利利A. information engineering B. prototype 或重直写的分列列C. object-oriented design D, rapid application development 6 the 13. Data partitioning truly distributes rows and columns of tables to specific database servers. 7段での区: 表 with little or no duplication. A assigns different columns to different servers B. Horizontal partitioning 水井分区分 後少或 元章目 A. Vertical partitioning 重直分区引 D. Top-down partitioning C. Orthogonal partitioning is the process of translating the source data or document into a computer readable format. B. Data mining the 12th A. Data entry C. Data process 从机器可读形式输入数据行的 D. Data capture This id entification and acquistion 15. D is an internal output that presents information with little or no filtering. 750 kg new dots to B. Summary report 摘变:对房处门 分类 内部种 A. Daily report D. Detailed report 详细报告很个过滤语息 C. Exception report 讨孩洋细信息 16. In processing, the entered data is collected into files called batches and processed as a complete batch. 15为一个完整的批处理 Tak It ine captured data is processed immediately A. batch attains Topic D. remote batch C. interactive Page 2 of 41s entered and edited on-line, but collected into batches for stop subsequent processing 数据是在成录入和编辑的,但会格数据收集起来 进行的英处理

GUI	17. According to Galitz, does NOT resumisuse, abandonment, and other undesirable consumisuse, abandonment, and other undesirable consumisus of computer jargon and acron problem of intuitive design	nyms 不可で列码 不通观的设计 Cactions 无法区分入同的操作	
	direction. A. association C. visibility 20	B. navigability D. directional	

Q.2: For each of the tasks listed below, draw a PERT chart and determine the critical path. (20 points)

Activity ID	Activity Description	Duration (Weeks)	Predecessor
A	Preliminary investigation	1	None
В	Problem analysis	2	A
С	Data requirement analysis	3	В
D	Process requirement analysis	5	В
E	Logical database design	6	С
F	Normalized form analysis	4	С
G	Physical database design	3	E, F
H	Dataflow design	6	D, F
I	Interface design	4	G, H
J	System implementation	30	I
K	System testing	10 :	J
L	Installation	5	K

USE THE FOLLOWING NOTATION WHEN DRAWING THE PERT CHART.

Activ	rity ID
Early Start	Duration
Late Start	Slack Time

Page 3 of 4

Q.3: Given the narrative description, answer the questions. (60 points)

The Xidian University Libraries is affiliated to Xidian University with 17 lending rooms (借阅室) in the two campuses. The manager has decided to redesign its collection material database named XLD. Currently, the database holds information on:

- ♦ Books, videos and CDs available for borrowing;
- Fivery item (book, video, CD) has a unique collection ID, a title, and an ISBN which is unique for every publication; every item may be in good order or damaged; note that if there are 10 copies of a single book, they have distinct collection ID, but identical ISBN;
 - ♦ Books can be in Chinese, English, or another language; in either case, the database stores the language the book is written in;
 - ♦ Books have a <u>publisher</u> and one or more <u>authors</u>; CDs and videos have a unique producer, and one or more <u>artists</u>.

In addition, the database maintains data on library users and their borrowed material:

- Fach user has a unique userID, address, phone; users can be teachers, postgraduate to undergraduate students; each user can borrow material for 45 days;
- ♦ When a user selects an item to be borrowed, the library clerk updates the database, recording userID collection and date of borrowing;
- When a user returns an item, the library clerk updates the database, recording the date when the item was returned; if the item is overdue, the clerk also collects a fine calculated as DaysLate * fine/day; the fine per day amount is ¥0.10 for every user; the clerk also records the fine collected, if any; in addition, the clerk checks if the returned item is damaged, and if so, records this information;
- When a new material is purchased, it is catalogued (归类) (i.e., an entry is added to the database) and it is made available in some lending rooms. Damaged and unused material is removed from the collection. This is done once every six months
 - 上八人

 (1) Draw the <u>Context Data Flow Diagram</u> and <u>Functional Decomposition Diagram</u> for XLD. (15 points)
 - (2) Produce an Entity Relationship Diagram (Logical Data Model) and a set of Normalized

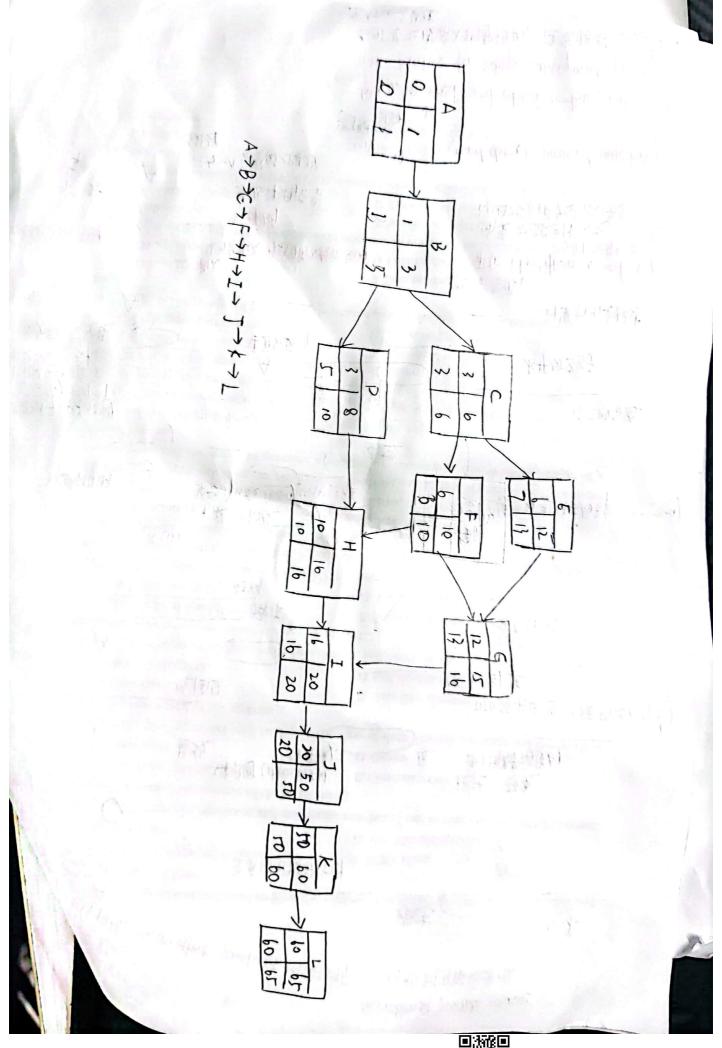
 Tables for the scenario. (20 points)

Sample table: Tblname (primarykey#, foreignkey#, attrl, attr2)

- (3) It has been decided that the database will be developed using object oriented analysis and design (OOA/OOD) methodology.
 - a) Draw a <u>UML Use Case diagram</u> for XLD and write the <u>expanded description</u> of <u>ONE</u> <u>primary use case (表格形式)</u>. (15 points)
 - b) Design an initial <u>Analysis Class Model</u> that shows the process and data required to support XLD. (10 points)



状刻



XLD

book (10 , title, ISBN. status, language, publisher. author) video
CD
user (10, address, phone, identity)

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