System Analysis & Design Midterm Exam

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Name:	Connie	ID: \$ 02>3038

Please fill the criteria for selecting a design methodology in the blank below. You will lose one point if you make one mistake; two points when two errors occur, and so on. 8% Excellent E. Good-G. Poor-P

Usefulness for	Water -fall	Parallel	Phased	Prototy-	Throwaway Prototyping	XP	Scrum
Unclear reqirements	p	P	(m	6	E	E	Ð
Unfamiliar technology	P	P	G	P	6	P	P
Complexity	Gi	9	61	P	E	P	P
Reliability	6	Gr	6	P	6	6	61
Short time Schedule	P	G	ė	6.	6	E	5
Schedule visibility	7	2	6	6	6	6	61

2. The basic types of methodologies discussed in this chapter can be combined and integrated to form new hybrid methodologies. Suppose you were to combine throwaway prototyping with the use of waterfall development. What would the methodology look like? Draw a picture and briefly describe it.

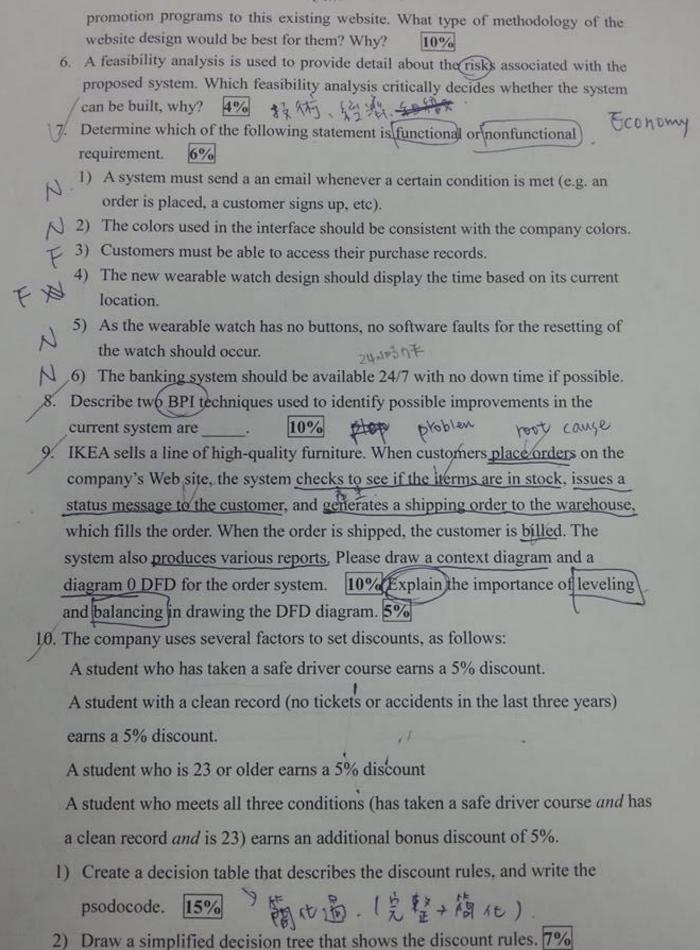
3. Can we combine Phased development with Unified Process? Draw a picture and briefly describe it. 10%

4. Scrum is an iterative and incremental agile software development method for managing software projects and product or application development. Please answer the following questions related to Scrum. 1) What is Product Backlog?

2% 2) What is User Story? 3%

5. China's most popular online shopping platform, Taobao, rang up more than USS9 billion during the country's biggest online shopping holiday in 2014. The record sales indicate the changes in consumer habits and it is expected to continually grow at fast speeds and could boost China's future economy. Alibaba Group will be going to add

新港的能到已存在的問題,通路很多,TP. Prototype. UP. YP. Sorum 整个能出籍。



. 自己不精的现代的结成物进行生活 promotion programs to this existing website. What type of methodology of the website design would be best for them? Why? 6. A feasibility analysis is used to provide detail about the risks associated with the proposed system. Which feasibility analysis critically decides whether the system can be built, why? 4% 技術到到方什么物件的事評在根在的技術,是有有能力建置分別 6 7. Determine which of the following statement is functional or nonfunctional requirement. 1) A system must send a an email whenever a certain condition is met (e.g. an 持水田 order is placed, a customer signs up, etc). N 2) The colors used in the interface should be consistent with the company colors. 7 3) Customers must be able to access their purchase records. F 4) The new wearable watch design should display the time based on its current 5) As the wearable watch has no buttons, no software faults for the resetting of the watch should occur. G 35新成本 1克 the watch should occur.

10 6) The banking system should be available 24/7 with no down time if possible. Describe two BPI techniques used to identify possible improvements in the 10% current system are 109. IKEA sells a line of high-quality furniture. When customers place orders on the company's Web site, the system checks to see if the iterms are in stock, issues a status message to the customer, and generates a shipping order to the warehouse, which fills the order When the order is shipped, the customer is billed. The system also produces various reports. Please draw a context diagram and a diagram 0 DFD for the order system. | 10% Explain the importance of leveling and balancing in drawing the DFD diagram. 5% 10. The company uses several factors to set discounts, as follows: A student who has taken a safe driver course earns a 5% discount. (and the by A student with a clean record (no tickets or accidents in the last three years) and the control of evdey picked mile earns a 5% discount. A student who is 23 or older earns a 5% discount order desti A student who meets all three conditions (has taken a safe driver course and has a clean record and is 23) earns an additional bonus discount of 5%. Create a decision table that describes the discount rules, and write the psodocode. 15% 公司 输入量的 Draw a simplified decision tree that shows the discount rules. 7% descent

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