## System Analysis & Design Midterm Exam

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 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, on 8% Excellent-F Good-G Poor-P

Usefulness for	Water -fall	Parallel	Phased	Prototy- ing	Throwaway Prototyping	XP	Scrum
Unclear reqirements	p	P	(6)	6	E	£	Ð
Unfamiliar technology	P	P	G	P	E	P	P
Complexity	61	9	61	P	E	P	P
Reliability	6	Ga	6	P	6	61	61
Short time Schedule	P	G	-16	6	6	E	6
Schedule visibility	7	7	6	6	6	6	GI

2. The basic types of methodologies discussed in this chapter can be combined and D 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%

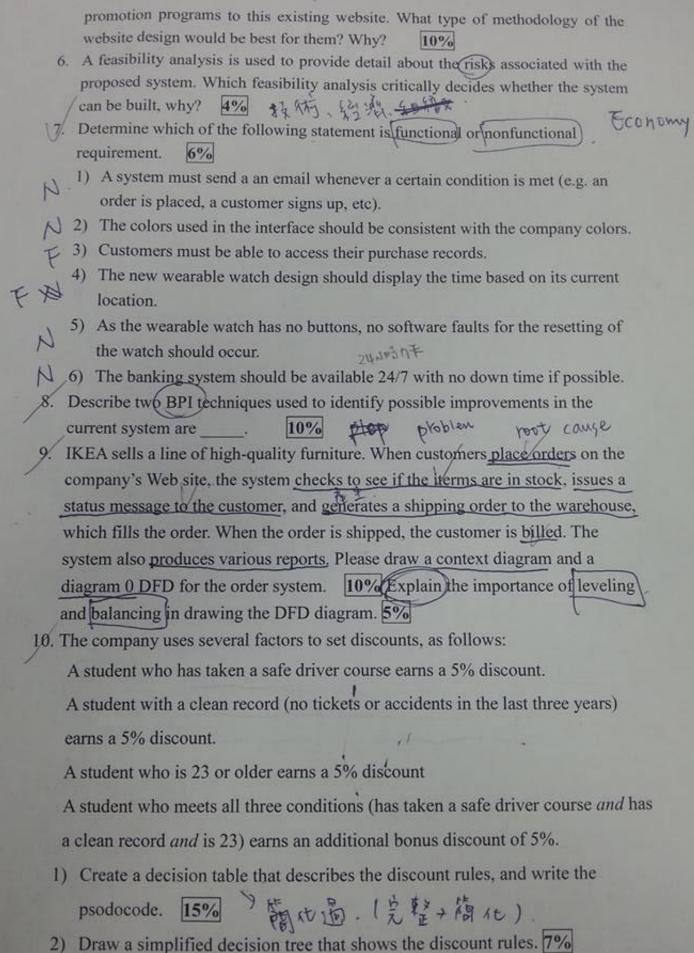
4. Scrum is an iterative and incremental agile software development method for managing software projects and product or application development. Please answer the following questions related to Scrum. 1) What is Product Backlog?

2% 2) What is User Story? 3%

5. China's most popular online shopping platform, Taobao, rang up more than US\$9

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

新婚的能到已存在bill 網站, 通路很多, TP. Prototype. UP. YP. Sown 整个不能出籍.



我覺得用以使用以戶本政論,因為包閣簽代達、能不舒地改善、去符合職卷其此快達的專品 中心的 包也不得的现代的经太路进行重新 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% 22 阿月了中心,我中午里許在根在心被地,是否有能力建置本然 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 order is placed, a customer signs up, etc). 特殊なる・ N 2) The colors used in the interface should be consistent with the company colors. ? 3) Customers must be able to access their purchase records. 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 · 结新成本+五 Describe two BPI techniques used to identify possible improvements in the current system are 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 items 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 there years) and the last three years) earns a 5% discount. A student who is 23 or older earns a 5% discount 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% page 100 by Draw a simplified decision tree that shows the discount rules. 7% No desemb ese