

103 學年度 博班資格考 軟體工程試題

命題方式: close book 考試時間: 共 4 小時

共 1 頁 第 1 頁

第一部分：50 分

1. As well as the need for real-time response, what are other important differences between embedded systems and other types of software system? (10%)
2. What are the three logical stages in service engineering processes? (10%)
3. What are the basic elements of a component model? (10%)
4. a)What are the five levels in the staged CMMI models?(5%) b)What is the advantage of staged CMMI?(3%) c)What is the major disadvantage of staged CMMI?(2%) d)What is the continuous CMMI model?(5%) e)What is the key difference between the staged and the continuous CMMI models? (5%)

第二部分：50 分

1. What are the similarities and differences between the Unified Process and an agile process? (15%)
2. What are the benefits of using MVC? The Command design pattern is often used in an MVC software architecture. Please draw the class diagram and describe their relationship. (20%)
3. Law of Demeter (LoD) is a guideline to minimize the type of coupling. Please apply the law to explain each situation. (15%)