

BTSE 2153 SOFTWARE EVOLUTION AND MAINTENANCE  
QUIZ 2

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1. What is software configuration item (SCI)? Provide an example of SCI. (4 marks)
  - A software configuration item (SCI) is a software entity that has been established as a configuration item.
  - SCM procedures, source code, software design descriptions
2. Based on Q (1), describe the process of producing the SCI before we defined it as a baseline. (6 marks)
3. Why a good comprehension of the software development processes is important when creating a plan for software reengineering? (4 marks)
  - Because before modifying the system, we would need to understand the whole existing system in order to know which improvements needed to be implemented and which features needed to be enhanced.
4. The goal of reengineering is to improve the functionality and quality attributes of the system. List two examples of quality attributes. (4 marks)
  - reusability, maintainability, performance
5. Which of following characteristics are part of the definition of a legacy system? Justify your answer.
  - i. The system has a great many users. (3 marks)
    - It is part of the legacy system definition because the old system has been running for more than 10 years and the number of users is increasing every year, so there are many users on the system.
  - ii. The system has an old-fashioned terminal interface style. (3 marks)
    - This is also part of the definition of a legacy system, as the legacy system has been in production for more than 10 years, so the interface will be old-fashioned.
6. Cold Turkey approach is one of the migration strategies you can implement when planning for your legacy system migration. Before you can proceed with the plan, identify what are the possible risks might arise when implementing this approach. (6 marks)
  - The risk of failure is high as it involves redesigning and recoding the LIS using a new implementation platform, modern software architecture and new tools and databases.