

Course Title: Software Engineering  
Date: 14/09 / 2014  
No. of Questions: 3 Questions  
Time: 2 hours  
Using Calculator (No)

University of Palestine



Final Exam  
Summer 2013/2014  
Total Grade: 100

Instructor Name: Eng. Eman Alajrami  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

First Question	No. of Branches (1)	10 Marks
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(A) (5)

Put (√) or (X) for each of the following statements:

- 1) Legacy systems are not risky to replace. ( )
- 2) NL is recommended to be used in System requirements. ( )
- 3) Usability is an example of emergent properties. ( )
- 4) Software costs more to maintain than it does to develop. ( )
- 5) Maintainability reflects the extent to which the system can be repaired in the event of a failure ( )
- 6) Waterfall model is a dynamic process models ( )
- 7) The activities of design and implementation are closely related and may be inter-leaved ( )
- 8) Requirement completeness means that there are no requirements conflicts ( )
- 9) Project planning is probably the less time-consuming project management activity ( )
- 10) Deliverables are milestones but milestones need not be deliverables. ( )

Second Question	No. of Branches (1)	10 Marks
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(A) Define the following:

1. Software process:

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2. COTS

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3. Critical Systems

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4. System Requirements

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5. Emergent System properties

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**2. What are the ways used to integrate the subsystems? Which is preferred? Why?**

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**3. What are the dependability dimensions?**

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**4. Pick the most appropriate generic software process model for *an interactive system for railway passengers that finds train times from terminals installed in stations*. You can mix between more than one model?**

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**5. What are the problems with NL (Natural Language)?**

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**6. Write two functional and two non-functional requirements for the microwave?(5 marks)**

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**7. What are the advantages of spiral model ? (5 Marks)**

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**8. How requirements eliciting can be done?**

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