Assignment #

Deadline: Day 15/02/2018 @ 23:59

**[Total Mark for this Assignment is 4]**

***System Integration***

***IT440***

**Instructions:**

* This Assignment must be submitted on Blackboard (**WORD format only**) via the allocated folder.
* Email submission will not be accepted.
* You are advised to make your work clear and well-presented, marks may be reduced for poor presentation. This includes filling your information on the cover page.
* You MUST show all your work, and text must not be converted into an image, unless specified otherwise by the question.
* Late submission will result in ZERO marks being awarded.
* The work should be your own, copying from students or other resources will result in ZERO marks.
* Use **Times New Roman** font for all your answers.

Student Details:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Name:**###  **CRN:**### |  | **ID:**### |
|  |  |  |

# Question One

***1 Mark***

*Learning Outcome(s):*

*Explain the software life cycle, and the importance of integra­tion operations*

**Q1) Complete the following table.**

|  |  |  |
| --- | --- | --- |
|  | Software lifecycle for military and aerospace project | Waterfall model for software lifecycle |
| Advantages |  |  |
| Disadvantages |  |  |

**Answer:**

each cell will carry 0.5 mark

|  |  |  |
| --- | --- | --- |
|  | Software lifecycle for military and aerospace project | Waterfall model for software lifecycle |
| Advantages | Includes security, safety and quality aspects and effective methods for integration | Simple and easy to understand |
| Disadvantages | Contains high number of steps | No cross talk between the steps, no security, no safety and no quality aspects |

# Question Two

***1 Mark***

*Learning Outcome(s):*

Explain how program and project planning is important as it describes the necessary plan­ning for software and system efforts during software design/development life cycles

**Q2) Discuss this idea with your own words: ‘Program and project planning is the biggest and most important step for military and aerospace project'.**

**Answer**:

The planning step is the most important phase during the development life cycle in military and aerospace project and program, because in this step we will estimate the cost and the schedule of all the project. Additionally, the planning activity includes the software and system requirement definitions, defined safety and security requirement definitions and the selection of appropriate software subcontractors. .

# Question Three

***1 Mark***

*Learning Outcome(s):*

Explain how program and project planning is important as it describes the necessary plan­ning for software and system efforts during software design/development life cycles

**Q3). There are different guidelines that established to eliminate communication issues, Write four quality project guidelines.**

**Answer**:

* Daily meeting
* Idea sharing
* Keep project managers informed
* Complaint resolution

# Question Four

***1 Mark***

*Learning Outcome(s):*

Discuss how the system/subsystem requirements reviewed by program and project personnel ensure accurate and complete understanding of the restrictions of systems design.

Q4) Write four technical reviews and audits that effecting software and system.

**Answer :**

* Initial requirements (IR)
* Incremental design review (IDR)
* Final design meeting (FDM)
* Test readiness (TR)
* First-article inspection (FAI)
* Functional configuration audit (FCA)
* Physical configuration audit (PCA)