

TQ 1: Problem Solving and SE Lifecycle - Results



Attempt 2 of 5

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Attempt Score **13 / 13**

Overall Grade (Highest Attempt) **13 / 13**

Question 1

1 / 1 point

Map each of the problems with their common solution types:

- | | |
|--------------------------------|----------------------|
| <u> 2 </u> Requirements | 1. Requirements |
| <u> 4 </u> Detailed Design | 2. High Level Design |
| <u> 1 </u> SE Problems | 3. Detailed Design |
| <u> 3 </u> High Level Design | 4. Implementation |

Question 2

1 / 1 point

Correctly order the following problem solving steps

- 4 Test to verify it solves the original problem
- 1 Define the Problem
- 2 Identify possible solutions
- 3 Evaluate to find the best one

Question 3

1 / 1 point

A problem has an obvious solution

☐ True☒ False**Question 4****1 / 1 point**

A task has an obvious solution

☒ True☐ False**Question 5****1 / 1 point**

Problem solving is best performed by individuals in isolation so that they can concentrate

☐ True☒ False**Question 6****1 / 1 point**

Order the following phases of the SE Lifecycle properly

__4__ Test

__6__ Support/Maintenance

__5__ Release

__2__ Design

__1__ Requirements

__3__ Implementation

__7__ Upgrade/Update

Question 7**1 / 1 point**

Match the definition with each phase

__7__ Upgrade/Update

__4__ Test

1. First phase where customer defines What the system needs to

- __1__ Requirements
- __6__ Support/Maintenance
- __2__ Design
- __5__ Release
- __3__ Implementation

do in order to add value to the business

Converts the What of

2. Requirements into the How of the solution
3. Realization of the defined Design resulting in a working solution
4. Demonstrates the solution meets the defined Requirements
5. Formal process to make the solution available to targeted users
6. Phase where bug fixes and minor changes are released as Patches to the production environment
7. Minor or major version increments to the the production environment
7. to introduce new features and/or changes to existing features, may include bug fixes

Question 8

1 / 1 point

Match the definitions to the SE Model

- __1__ Waterfall -
- __3__ Agile
- __2__ Iterative
- __4__ Scrum

Single pass through the SE Phases

1. with all functionality delivered at the culmination of the project
2. Multiple passes through the SE Phases with predetermined sets of functionality delivered at the end of each pass
3. Defines a philosophy of how to build software but has no strict

- processes to follow (some debate as to whether this is a "SE Model")
- a sequence of consistently, timeboxed development efforts 1-
4. 4 weeks in length, each culminating in a potentially shippable product

Question 9**1 / 1 point**

The SRS (software requirements specification) is the postcondition for which SE Phase(s)

- ☐ Release
- ☒ Requirements
- ☐ Test
- ☐ Upgrade/Update
- ☐ Support/Maintenance
- ☐ Design
- ☐ Implementation

Question 10**1 / 1 point**

A Detailed Design is a precondition for which SE Phase

- ☒ Implementation
- ☐ Requirements
- ☐ Release
- ☐ Support/Maintenance
- ☐ Upgrade/Update
- ☐ Design
- ☐ Test

Question 11**1 / 1 point**

Working software is the postcondition for which SE Phase(s)

- ☐ Test
- ☐ Design
- ☒ Implementation
- ☐ Requirements
- ☐ Support/Maintenance
- ☐ Upgrade/Update
- ☐ Release

Question 12**1 / 1 point**

A Requirements Traceability Matrix is a postcondition for which SE Phase(s)

- ☐ Test
- ☐ Support/Maintenance
- ☐ Design
- ☐ Upgrade/Update
- ☐ Release
- ☐ Requirements
- ☐ Implementation

Question 13**1 / 1 point**

A production instance of the solution is the postcondition for which SE Phase(s)

- ☐ Requirements
- ☐ Design
- ☐ Implementation
- ☐ Test
- ☐ Release
- ☐ Support/Maintenance
- ☐ Upgrade/Update

Done