

# Systems and Operations Research – Fall Semester – 2021/2022

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Started on	Sunday, 7 November 2021, 11:09 PM
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Completed on	Sunday, 7 November 2021, 11:21 PM
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Grade	14.50 out of 15.00 (97%)

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Question 1  
Correct  
Mark 1.00 out of 1.00  
Flag question

In V model, Requirement analysis refers to detailed communication with the customer to understand their \_\_\_\_.

Select one:

- ☐ a. Analysis and design
- ☒ b. Requirements and expectations ✓
- ☐ c. None of the mentioned above
- ☐ d. Testing and implementation

Your answer is correct.

The correct answer is: Requirements and expectations

Question 2  
Correct  
Mark 1.00 out of 1.00  
Flag question

The measure of the extent to which the system achieves its intended transformation with the minimum use of resources.

Select one:

- ☐ a. Effectiveness:
- ☒ b. Efficiency ✓
- ☐ c. Efficacy
- ☐ d. None of the above

Your answer is correct.

The correct answer is: Efficiency

Question 3  
Correct  
Mark 1.00 out of 1.00  
Flag question

User Acceptance Testing tests whether the product is capable enough to launch in the market or ready to work in the real world.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 4  
Correct  
Mark 1.00 out of 1.00  
Flag question

With reference to V-Model, testing is done in a hierarchical manner,

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5  
Correct  
Mark 1.00 out of 1.00  
Flag question

Validation ensures that "Are we building the right product?"

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 6  
Correct  
Mark 1.00 out of 1.00  
Flag question

**A system is a group of interacting, interrelated, or interdependent elements forming a complex whole.**

Select one:

- ☒ True ✓  
☐ False

The correct answer is 'True'.

Question 7  
Correct  
Mark 1.00 out of 1.00  
Flag question

**Systems Engineering (SE) is a narrow branch of engineering associated with computers, software, and information technology (IT).**

Select one:

- ☒ True ✓  
☐ False

The correct answer is 'True'.

Question 8  
Correct  
Mark 1.00 out of 1.00  
Flag question

**the measure of the extent to which a system achieves its intended transformation**

Select one:

- ☒ a. Effectiveness: ✓  
☐ b. Efficiency  
☐ c. Efficacy  
☐ d. None of the above

Your answer is correct.

The correct answer is: Effectiveness:

Question 9  
Correct  
Mark 1.00 out of 1.00  
Flag question

**..... refers to a different set of tasks that ensure that the software that has been built is traceable to customer requirements.**

Select one:

- ☐ a. Verification  
☒ b. Validation ✓  
☐ c. Array  
☐ d. None of these

Your answer is correct.

The correct answer is: Validation

Question 10  
Correct  
Mark 1.00 out of 1.00  
Flag question

**In V-model, each development phase is associated with,**

Select one:

- ☐ a. Development phase  
☒ b. Testing phase ✓  
☐ c. Implantation phase  
☐ d. Design phase

Your answer is correct.

The correct answer is: Testing phase

Question 11  
Correct  
Mark 1.00 out of 1.00  
Flag question

**Model-based system engineering (MBSE) focuses on developing, managing and controlling the model of the system**

Select one:

Flag question

- ☒ True ✓  
☐ False

The correct answer is 'True'.

Question 12  
Partially correct  
Mark 0.50 out of 1.00  
Flag question

Which of the following are not type of SDLC models?

Select one or more:

- ☐ a. Agile model  
☒ b. Capability Maturity model ✓  
☐ c. Big bang model  
☐ d. Code and fix model  
☐ e. Spiral model

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: Code and fix model, Capability Maturity model

Question 13  
Correct  
Mark 1.00 out of 1.00  
Flag question

Verification ensures that "Are we building the product, right?"

Select one:

- ☒ True ✓  
☐ False

The correct answer is 'True'.

Question 14  
Correct  
Mark 1.00 out of 1.00  
Flag question

..... refers "Understand principles, what is best?".

Select one:

- ☐ a. Data  
☒ b. Wisdom ✓  
☐ c. information  
☐ d. knowledge

Your answer is correct.

The correct answer is: Wisdom

Question 15  
Correct  
Mark 1.00 out of 1.00  
Flag question

Amongst which of the following is / are the Verification and validation activities.

Select one:

- ☐ a. Technical reviews, quality and configuration audits  
☐ b. Algorithm analysis, development testing, usability testing  
☐ c. Qualification testing, acceptance testing, and installation testing  
☒ d. All of the mentioned above ✓

Your answer is correct.

The correct answer is: All of the mentioned above

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