

**SPM**

Question 26

Not answered

1 out of

Flag question

### A Feasibility Study.

Select one or more:

- a. Does not involve all the stake holders.
- b. Looks at alternative solutions.
- c. Is generally carried out after the software requirements specification.
- d. Covers cost to benefit analysis.



Overall印象: 良好



ONLINE EXAMINATIONS

Sri Lanka Institute of Information Technology

Question 50

yet answered  
1 out of 1  
Flag question

Design Models have the following characteristics

Select one or more:

- a. Design models cannot show the behavior of a system
- b. Design models show the structure of a system
- c. Design Models use UML to achieve the objectives
- d. Design models are based on the system implementation

acer



Question 20

Not yet answered

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Flag question

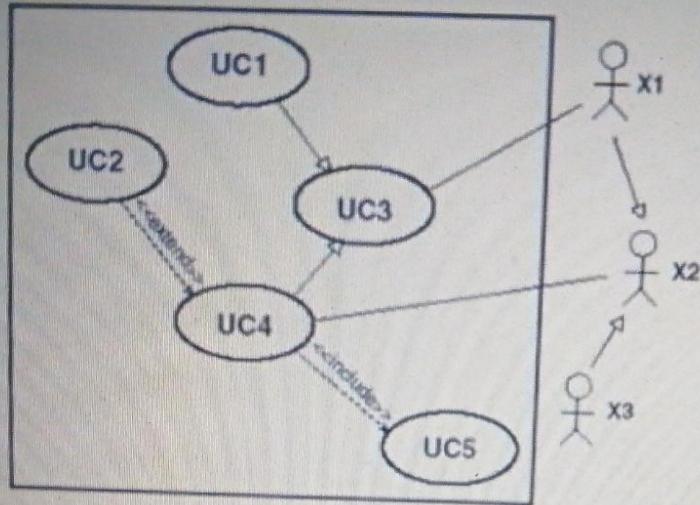
Which one of the following is **not** a step of requirement engineering?

Select one:

- a. Gathering
- b. Feasibility Study
- c. Documentation
- d. Analysis



With reference to Figure below, which of the following statements are **true**?



Select one or more:

- a. X3 and X1 are specializations of X2.
- b. X3 cannot interact with the system using UC4.
- c. X2 cannot interact with the system using UC3
- d. All of the mentioned
- e. X3 can interact with the system using UC4.

**SLIT** Sri Lanka Institute of Information Technology

**Question 35**  
Not yet answered  
Marked out of 1.00

Which of the following the Development Team should **not** do during the first Sprint? N

Select one or more:

a. Develop a plan for the rest of the project N

b. Deliver an increment of potentially shippable functionality. Y

c. Develop and deliver at least one piece of functionality. Y

d. Design the complete architecture and infrastructure for the whole project. N

**Sri Lanka Institute of Information Technology**

Which statements are **true** for Use Case Diagram?

Select one or more:

a. Use case modelling supports requirements elicitation and specification.

b. Use cases act as a means of communicating with stakeholders about what the system is intended to do.

c. Use Case Model captures the functional and non-functional requirements of a system.

d. Use Case Model demonstrates the behaviour of the proposed system to the clients.

 Online Exams  
Sri Lanka Institute of Information Technology

**Question 43**  
Not yet answered  
Marked out of 1.00  
 Flag question

An inconsistent requirement

Select one or more:

- a. always relates to functional requirements
- b. should be made a consistent requirement.
- c. is a non-functional requirement
- d. occurs when the customer cannot decide what problem they really want solved

 Online Exams  
Sri Lanka Institute of Information Technology

**Question 62**  
Not yet answered  
Marked out of 1.00  
 Flag question

Which of the following process models' goal is to **identify risks** and focus on it early?

Select one:

- a. Linear model
- b. V model
- c. Spiral
- d. Incremental

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Section 35

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Which of the following the Development Team should **not do** during the first Sprint?

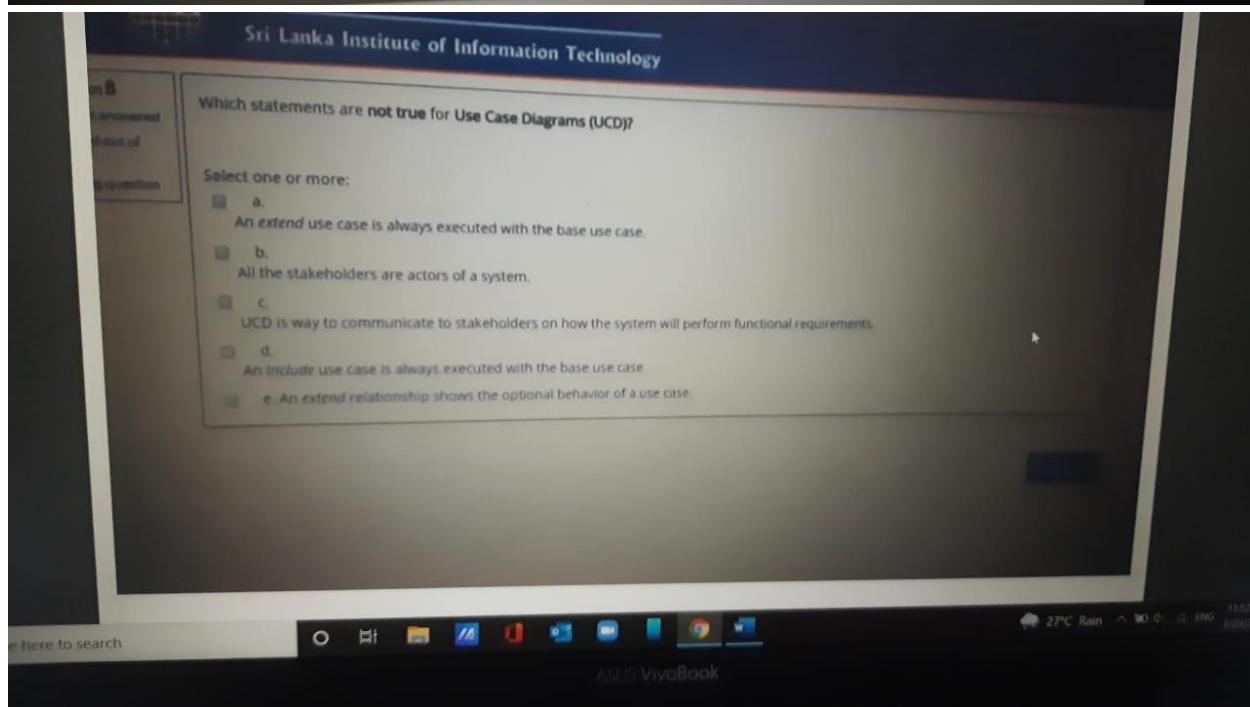
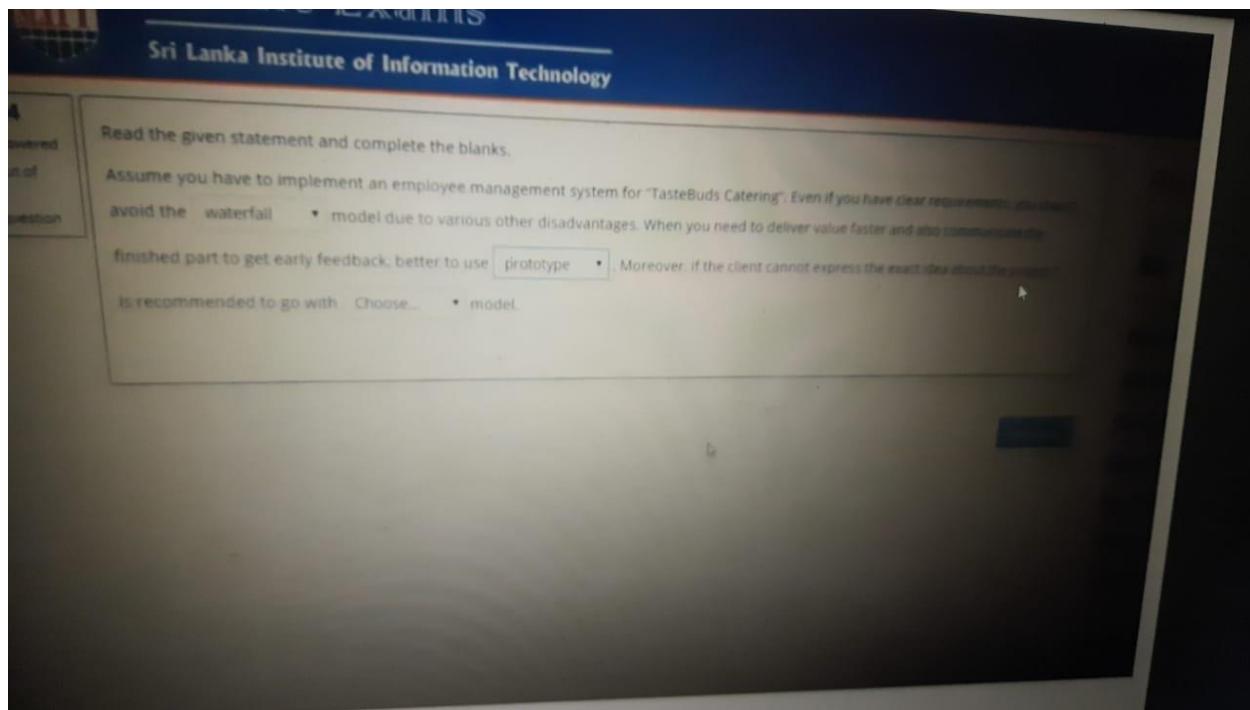
Select one or more:

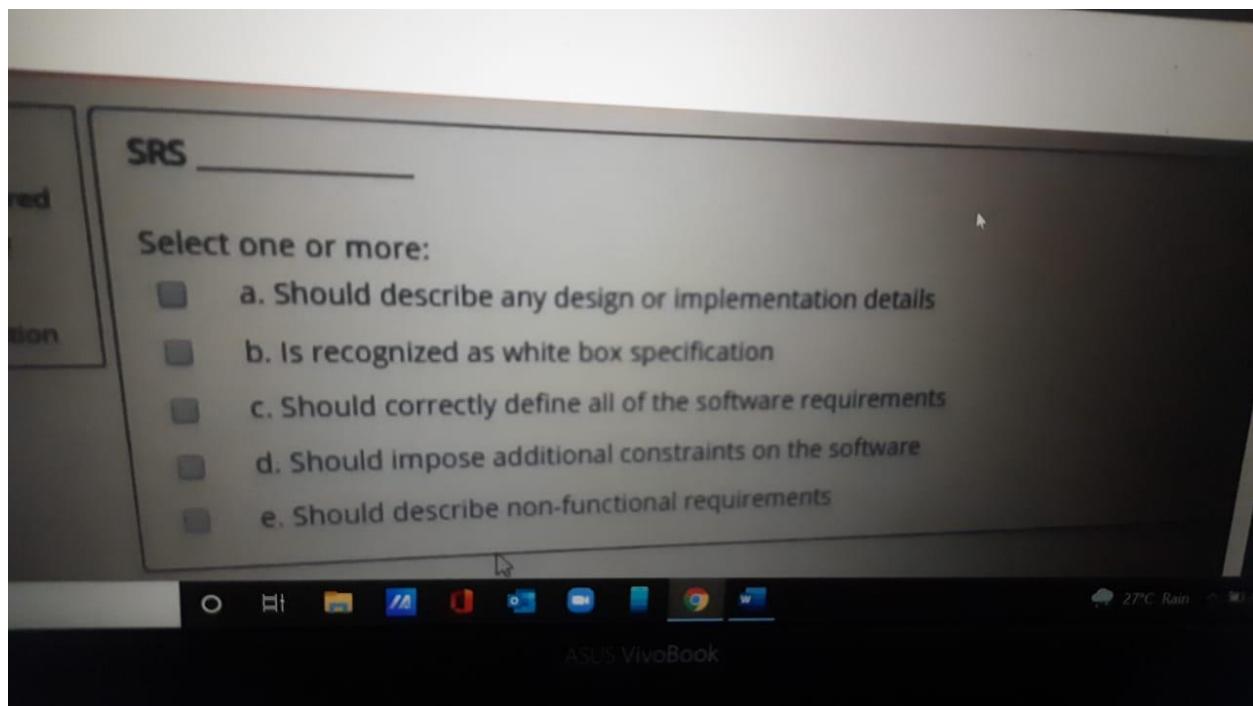
- a. Develop a plan for the rest of the project
- b. Deliver an increment of potentially shippable functionality.
- c. Develop and deliver at least one piece of functionality.
- d. Design the complete architecture and infrastructure for the whole project.

Which of the following statements are **true** about a use case

Select one or more:

- a. A use case can be initiated by an actor.
- b. A use case is a complete sequence of related actions.
- c. Use cases are roles adopted by those participating.
- d. A use case represents a specific way to use the system.
- e. A use case participates in relationships with actors, not with other use cases





The screenshot shows a window titled "Which statements are true regarding Prototyping" with the instruction "Select one or more:" followed by five options:

- a. Prototype can replace the functional requirements of SRS
- b. Prototype should be thrown away
- c. Prototype can be patched for release phase
- d. None of the mentioned.
- e. Building prototype replaces requirements phase

The background of the window shows a blurred presentation slide with the title "National Action Plan" and several bullet points.

Sri Lanka Institute of Information Technology

Section 1  
Not yet answered  
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Flag question

Which of the following is **not true** about the incremental model?

Select one:

- a. The initial budget is low
- b. Incremental model is suitable for large projects
- c. Clients can get familiarized with the system gradually when the increments are being delivered
- d. Clients could pay for the software in increments
- e. Initial modules of the product may have low performance, low reliability and sometimes provide incomplete functionality.

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Which statements are **true** for Use Cases?

Select one or more:

- a. There can be relationships between use cases.
- b. A use case captures functional and non-functional requirements.
- c. Use cases are shown as ellipses, each with a name based on a verb-noun phrase.
- d. It demonstrates the low-level behaviour of the system.
- e. A use case shows how the system implements the functional requirements.

Which statements are true about the Waterfall model?

Select one or more:

- a. Risk of changing requirements is reduced.
- b. Has been in use for many years.
- c. Generates working software quickly and early during the software life cycle
- d. Simple and easy to manage- each phase has specific deliverable.
- e. None of the mentioned

Institute of Information Technology

Which of the below statements are TRUE on Ethnography?

Select one or more:

- a. Ethnography cannot be used in all the situations.
- b. Ethnography is better than interviews.
- c. Ethnography is used for requirement specification.
- d. Ethnography is used to discover requirements.
- e. Ethnography takes a longer time.

Which of the following statements are **true** about a use case

Select one or more:

- a. A use case can be initiated by an actor.
- b. A use case is a complete sequence of related actions.
- c. Use cases are roles adopted by those participating.
- d. A use case represents a specific way to use the system.
- e. A use case participates in relationships with actors, not with other use cases.

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Search

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SRS \_\_\_\_\_

Select one or more:

- a. Should describe any design or implementation details X
- b. Is recognized as white box specification X
- c. Should correctly define all of the software requirements X
- d. Should impose additional constraints on the software X
- e. Should describe non-functional requirements



## Online Exams

Sri Lanka Institute of Information Technology

Consider a system where a heat sensor detects an intrusion and alerts the security company. What kind of a requirement is this?

Select one:

- a. Functional
- b. Known Requirement
- c. Non-Functional
- d. Constraint

System modeling space may include:

Select one or more:

- a. User stories
- b. Activity diagram
- c. None of the mentioned
- d. CRC cards
- e. Use case diagram

Question 26

Not answered  
0 out of 1

Flag question

### A Feasibility Study.

Select one or more:

- a. Does not involve all the stake holders.
- b. Looks at alternative solutions.
- c. Is generally carried out after the software requirements specification.
- d. Covers cost to benefit analysis.



The value of  $x$  can be calculated by using the following equation.

$$x = \frac{w}{(y^2 - 2yz)}$$

in

Write a C program to input the values of  $w, y$  and  $z$  from the keyboard and calculate and display the value of  $x$ .

Sample Input

If the following details are taken from the key board,  $z = 2$ ,  $y = 5$  and  $w = 11$ , the program should display 2.2 as the value of  $x$ .

Marking Guide

Declaring meaningful variable names - 1 mark

Using correct data types for variables - 1 mark

Taking keyboard inputs - 1 mark

Correct equation - 3 mark

Display output correctly - 1 mark

Formatting of output - 0.5 mark

Coding standards - 1 mark

Correct compilation of program - 0.5 mark

Correct execution of the program - 1 mark

The screenshot shows a Microsoft Word document with a question and answer section. The question asks for a C program to calculate  $x$  given  $w, y, z$ . The provided answer is a C program that includes #include, #define, and #include. It uses  $\sqrt{y^2 - 2yz}$  instead of  $y^2 - 2yz$  in the denominator of the formula. The code also includes a printf statement to output the result. The document has a header bar with tabs like Home, Insert, Page Layout, etc., and a ribbon menu at the top.

- + ⌂ Page view | A Read aloud | Draw | Highlight | Erase

## Which statements are true regarding Prototyping

Select one or more:

- a. Prototype can replace the functional requirements of SRS
- b. Prototype should be thrown away
- c. Prototype can be patched for release phase
- d. None of the mentioned.
- e. Building prototype replaces requirements phase

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Question 43  
Not yet answered  
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Flag question

Online Exams  
Sri Lanka Institute of Information Technology

An inconsistent requirement

Select one or more:

- a. always relates to functional requirements
- b. should be made a consistent requirement.
- c. is a non-functional requirement
- d. occurs when the customer cannot decide what problem they really want solved

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## Which statements are true regarding Prototyping

Select one or more:

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- b. Prototype should be thrown away
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- d. None of the mentioned.
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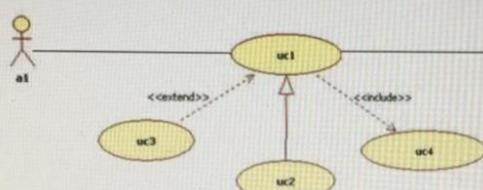
### Question 42

Not yet answered

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Flag question

Which of the following statements are TRUE regarding the diagram given in figure 3?



Select one or more:

- a. When UC1 is triggered, UC4 will also be triggered
- b. Both a1 and a2 associate with UC1
- c. When UC1 is triggered, UC3 might not be triggered
- d. When UC1 is triggered UC2 is also triggered.

Sri Lanka Institute of Information Technology

8  
Answered  
out of  
question

Which statements are **not true** for Use Case Diagrams (UCD)?

Select one or more:

a. An extend use case is always executed with the base use case.

b. All the stakeholders are actors of a system.

c. UCD is way to communicate to stakeholders on how the system will perform functional requirements.

d. An include use case is always executed with the base use case.

e. An extend relationship shows the optional behavior of a use case.

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Page 134 of 202 — Edited

NetExamination  
Sri Lanka Institute of Information Technology

Question 1  
Not yet answered  
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Flag question

Which of the following is **not true** about the incremental model?

Select one:

a. The initial budget is low ✓

b. Incremental model is suitable for large projects

c. Clients can get familiarized with the system gradually when the increments are being delivered ✓

d. Clients could pay for the software in increments

e. Initial modules of the product may have low performance, low reliability and sometimes provide inaccurate results

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Question 36  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following statements about the given diagram are true?

Select one or more:

- a. A can ignore Use Case Y.
- b. A and B inherit the behaviour of X.
- c. A or B can execute Use Case Z.
- d. A and B are not associated with Use Case Y.

Next page

Quiz navigation

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FEEDBACK

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## Which statements are true about the Waterfall model?

Select one or more:

- a. Risk of changing requirements is reduced.
- b. Has been in use for many years.
- c. Generates working software quickly and early during the software life cycle.
- d. Simple and easy to manage- each phase has specific deliverable.
- e. None of the mentioned

DONE

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Next item

### An **inconsistent** requirement

Select one or more:

- a. is a non-functional requirement X
- b. is a constraint X
- c. occurs when the customer cannot decide what problem they really want solved
- d. always relates to functional requirements ✓
- e. should be made a consistent requirement. ✓



Which of the following are **FALSE** in case of Unit Testing?

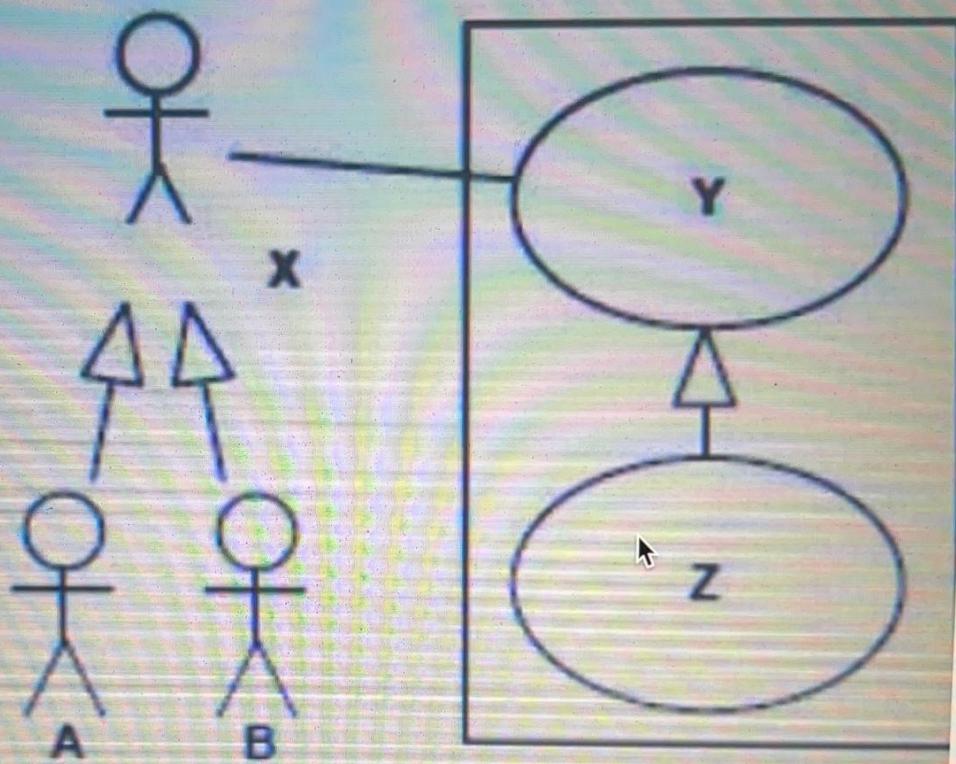
Select one or more:

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- a. Unit Testing usually happens after System Testing.
- b. Unit Testing
- c. In Unit Test



for use.



Select one or more:

- a. A can ignore Use Case Y. *?*
- b. A and B are not associated with Use Case Y. *X*
- c. None of the mentioned. *X*
- d. A and B inherit the behaviour of X.
- e. A or B can execute Use Case Z.

**SIT** Sri Lanka Institute of Information Technology

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Who is responsible to accept the product increment?

Select one:

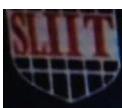
- a. The Scrum Team
- b. The Scrum Master
- c. The Product Owner
- d. The Development Team

**NetExam**  
Sri Lanka Institute of Information Technology

When the phases of Classical Waterfall Life Cycle Model is mapped to four main Software Process activities.

Select one:

- a. Design phase is mapped to Software Specification.
- b. Integration is discussed under Software Validation.
- c. Unit testing falls under Software Testing.
- d. Requirement Gathering is discussed under Software Validation.
- e. Feasibility Study is categorized under Software Analysis.

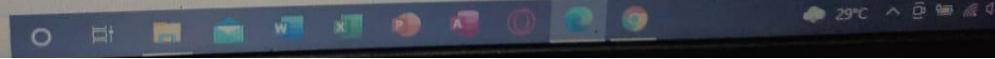


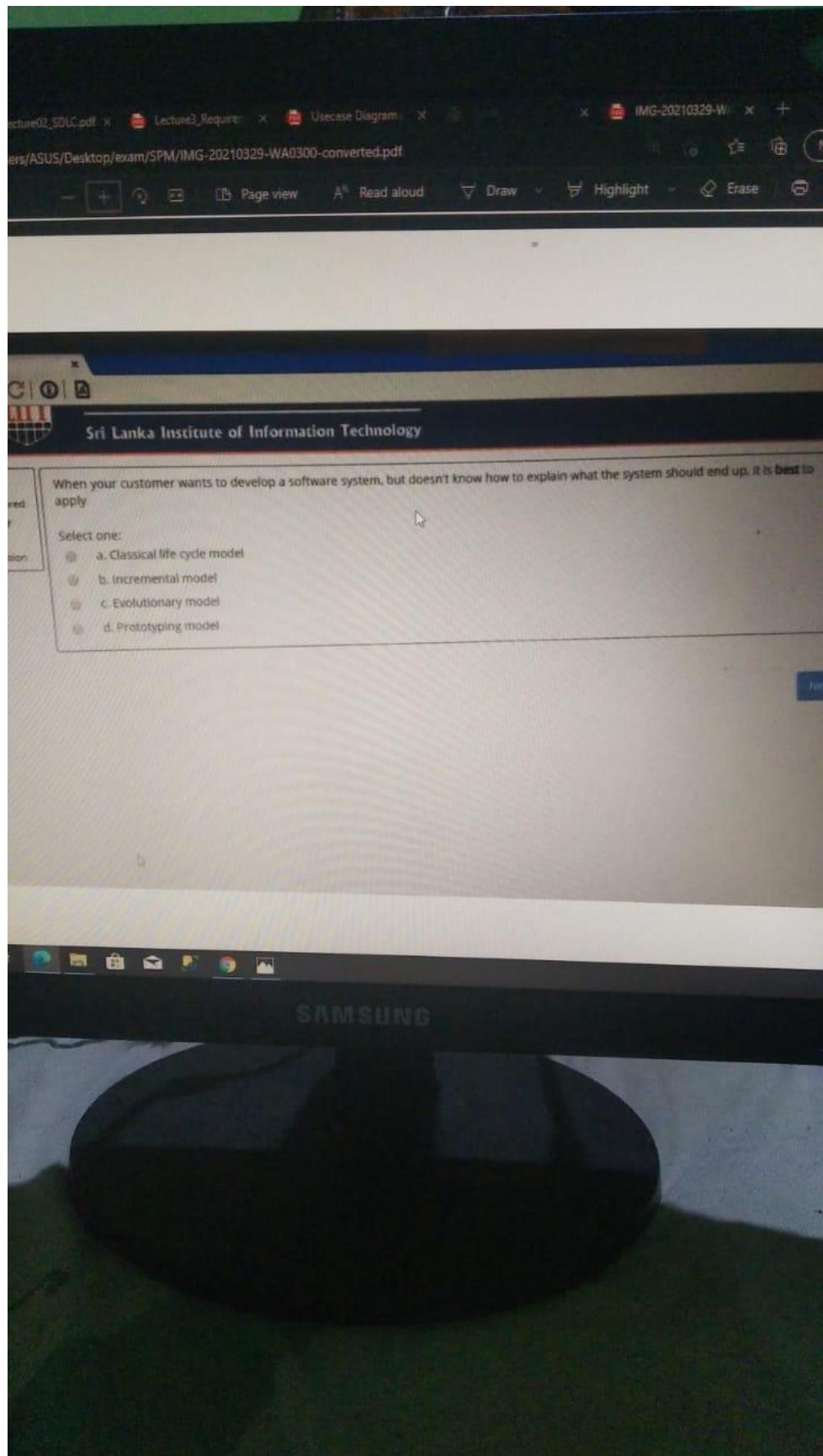
3

Answered  
Part of  
Question**An inconsistent requirement**

Select one or more:

- a. always relates to functional requirements
- b. should be made a consistent requirement.
- c. is a non-functional requirement
- d. occurs when the customer cannot decide what problem they really want solved







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Ethnography in Requirements Engineering refers to +

Select one:

- a. Interviewing customers
- b. Doing Feasibility Study
- c. None of the mentioned
- d. Implementation
- e. Observing end users at their work



Question 3

Not yet answered

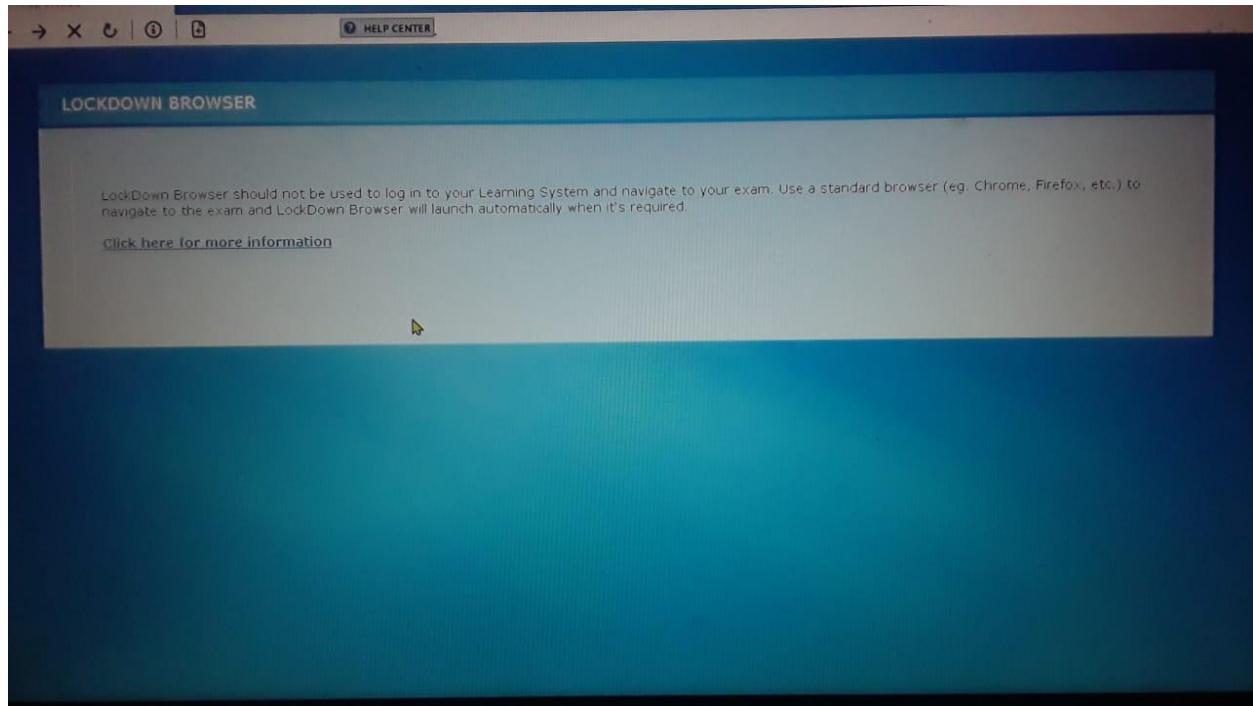
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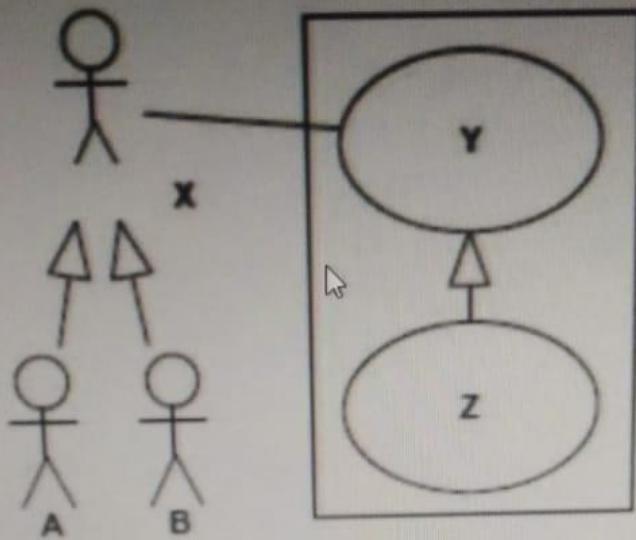
Software Consists of

Select one:

- a. set of instructions + operating system
- b. Programs + documentation + operating procedure
- c. Set of programs
- d. Programs + hardware
- e. Programs + Operating Procedure



Which of the following statements about the given diagram are true?



Select one or more:

- a. A can ignore Use Case Y.
- b. A and B inherit the behaviour of X.
- c. A or B can execute Use Case Z.
- d. A and B are not associated with Use Case Y.



SAMSUNG

19

Answered  
out of  
question

The **entry** criteria and **exit** criteria for Requirements phase in Waterfall model is.

Select one:

- a. Feasibility report, SRS
- b. SRS, Set of Unit tested Modules
- c. SRS, Design Documents
- d. Set of unit tested modules, SRS

x | +

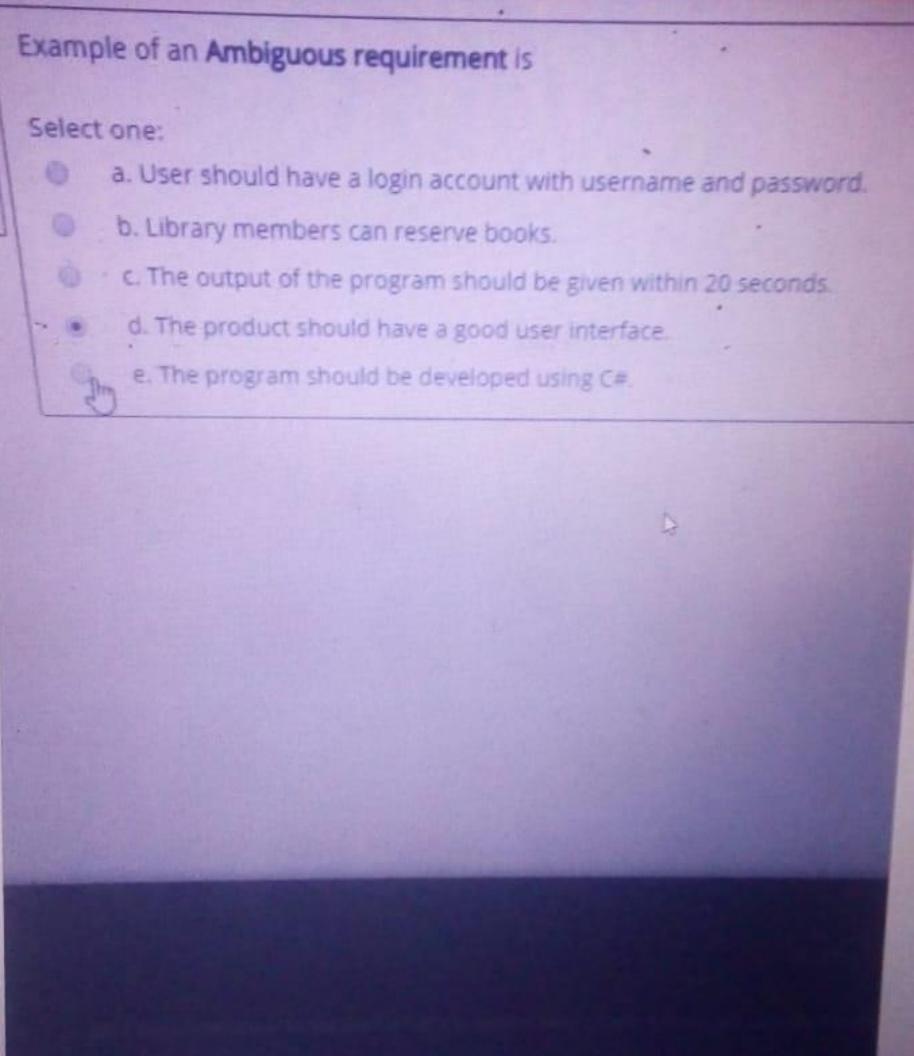
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Sri Lanka Institute of Information Technology

Example of an **Ambiguous requirement** is

Select one:

- a. User should have a login account with username and password.
- b. Library members can reserve books.
- c. The output of the program should be given within 20 seconds.
- d. The product should have a good user interface.
- e. The program should be developed using C#.



The screenshot shows a presentation slide with a blue header containing the text 'Sri Lanka Institute of Information Technology'. Below the header, the main content area has a light blue background. The title 'Example of an **Ambiguous requirement** is' is displayed in bold blue text. A sub-instruction 'Select one:' is followed by a list of five items, each preceded by a radio button. Item 'd.' is checked. A small hand cursor icon is positioned over the radio button for item 'd.'. The bottom of the slide features a dark blue footer bar with several small icons, including a gear, a person, a document, a globe, and a warning sign.

Sri Lanka Institute of Infor

B.Sc. Honours Degree in Info

Mid Semester Exam

Year 1, Semester 2 (2)

IT 1060 - Software Prog

Duration: 1 Hour

30th August 2016

**Instructions to Candidates:**

- 30 Multiple Choice Questions
- Marks - 100
- Duration - One Hour
- Answer all questions.

The image shows a computer screen displaying a NetExam software interface. At the top, there is a dark header bar with three small icons: a circular arrow, a magnifying glass, and a square. Below this is a blue navigation bar containing the text "NetExam" and "Sri Lanka Institute of Information Technology". On the left side of the main content area, there is a vertical sidebar with the number "5" at the top, followed by the text "Powered", "Question", and "of". The main content area contains a question and several multiple-choice options. The question reads: "Consider a system where, a heat sensor detects an intrusion and alerts the security company. What kind of a requirement is this?" Below the question, the text "Select one:" is followed by five options, each preceded by a radio button:

- a. Inconsistent requirement
- b. Constraint
- c. Non-Functional
- d. Functional
- e. Known Requirement

SLIIT NetExam  
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14 answered out of question

Which statements are true regarding Prototyping

Select one or more:

- a. Prototype should be thrown away ✓
- b. None of the mentioned ✗
- c. Prototype can be patched for release phase ✗
- d. Building prototype replaces requirements phase ✓ ✓
- e. Prototype can replace the functional requirements of SRS ✓

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81°F

Which of the following is **not true** about software process models?

Select one:

- a. Software process models always use a diagrammatic model.
- b. Incremental model is an example for a software process model ✓
- c. None of the mentioned. ✗
- d. Software process models show the important activities carried out during software development ✓
- e. A quality software could be developed when software engineers involved in developing a software product follow a soft models they are most familiar with. ✓



Which of the following statements are TRUE regarding the Feasibility Study Phase?

Select one or more:

- a. In Feasibility Study Phase we create the SRS. ✓
- b. Feasibility Study Phase is the starting point of Waterfall Model. ✓
- c. In Feasibility Study Phase we analyze Benefits over Costs. ✗
- d. In Feasibility Study Phase we write the test cases. ✗
- e. Feasibility Study Phase comes after the Requirements phase. ✗



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On a use case diagram, the type of relationship that arises when one use case calls another use case is a(n):

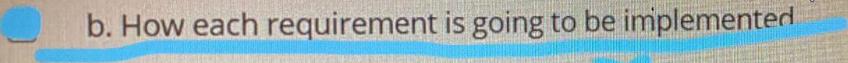
Select one:

- a. abstract relationship X
- b. association relationship X
- c. include relationship •
- d. generalization relationship •
- e. working relationship X



Which of the following are included in Software requirement specification?

Select one or more:

- a. Constraints on hardware and software to be used. 
- b. How each requirement is going to be implemented 
- c. Set of non-functional requirement. 
- d. Test cases 
- e. List of functions. 

Which of the following statements is not true?

Select one:

- a. Requirements must be complete. X
- b. Requirements must be testable. ✓ X
- c. Requirements must be unambiguous. X
- d. Requirements must be concerned with system functionality only. X
- e. Requirements must be consistent X

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Which model can be used for a small, well-defined software project of 2<sup>nd</sup> year students?

Select one:

- a. Waterfall model
- b. Prototyping model 
- c. V model 
- d. Spiral model 
- e. Incremental model 

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Which statements are true for use case relationships?

Select one or more:

- a. An include relationship means that the use case has an optional behavior.
- b. An extend relationship indicates that one use case may be extended (subjected to specific conditions) by the behavior of another.
- c. Generalization indicates that child use case inherits the properties of parent.
- d. None of the mentioned.
- e. An extend relationship means that the base use case always includes the extended use case.

Which one of the following is a functional requirement?

Select one:

- a. Portability
- b. Security
- c. Maintainability
- d. Robustness
- e. None of the mentioned

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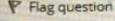
Consider a system where, a heat sensor detects an intrusion and alerts the security company. What kind of a requirement is this?

Select one:

- a. Inconsistent requirement 
- b. Constraint
- c. Non-Functional
- d. Functional
- e. Known Requirement 

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 Online Exams  
Sri Lanka Institute of Information Technology

Question 43  
Not yet answered  
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An inconsistent requirement

Select one or more:

- a. always relates to functional requirements
- b. should be made a consistent requirement.
- c. is a non-functional requirement
- d. occurs when the customer cannot decide what problem they really want solved



**Question 57**

Not yet answered

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The features of Incremental Model are \_\_\_\_\_

Select one or more:

- a. Requirements are prioritized
- b. Creates versions of the system
- c. Users have to wait a long time to get the working product
- d. No need for prioritized requirements

**A Feasibility Study.**

Select one or more:

- a. Does not involve all the stake holders.
- b. Looks at alternative solutions.
- c. Is generally carried out after the software requirements specification.
- d. Covers cost to benefit analysis.

Use Case scenario contents **must include**

1. Use case ID
2. Goal in context
3. Main Success Scenario steps

Select one:

- a. 1 and 3
- b. 1 only
- c. 1 and 2
- d. 1, 2 and 3
- e. 2 and 3

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Sri Lanka Institute of Information Technology

Question 6  
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Selection of particular life cycle model is **not based on**

Select one:

- a. Technical knowledge of development team
- b. Project type and associated risk
- c. Requirements
- d. None of the mentioned
- e. Testing methods

"Internet banking system must allow customers to transfer funds." Which of the following types of requirement is represented here?

Select one:

- a. Constraint, Functional requirement.
- b. Precise, Non-functional requirement.
- c. Precise, Functional requirement.
- d. Imprecise, Non-functional requirement.
- e. Imprecise, Functional requirement.



Question 8  
Not yet answered  
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Flag question

A company needs an inventory control system to maintain its inventory. The company could either develop a new software in-house or purchase an already developed software. During which phase(s) of the classical waterfall model can the company management take the decision on whether it is best to develop the software in-house or to purchase existing software?

Select one:

- a. Implementation
- b. Design
- c. Feasibility study
- d. Testing
- e. Requirement

Next page

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Sri Lanka Institute of Information Technology

Question 7  
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The system specification describes the

Select one:

- a. Software design
- b. functions, quality attributes and constraints of a system
- c. time required for system simulation
- d. implementation of system
- e. software architecture

Which statements below are **true** about **System Requirements**?

Select one or more:

- a. Requirements tell what customers want from the system.
- b. Requirements tell how customers want the system to be implemented.
- c. Requirements should not gather from all stakeholders.
- d. Requirements are written in a structured way.
- e.

Requirements should be gathered from all stakeholders.



2

Answered  
part of  
question

For a well understood data processing application it is best to use,

Select one:



- a. The spiral model
- b. V model
- c. The prototyping model
- d. The incremental model
- e. The waterfall model

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Question 9  
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Flag question

Which of the following is / are true regarding use case diagrams,

Select one or more:

- a. Use case diagram is a way of specifying requirements.
- b. In use case diagrams, a use case shows non-functional requirements.
- c. It demonstrates the low-level behavior of the proposed system.
- d. An Extend relationship implies that a Use Case may have optional behavior depending on a condition.
- e. An Include relationship means that a Use Case always executes the behavior described in the included Use Case.

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Which of the following is done during the requirement discovery step?

Select one:

- a. Validate and verify the client requirements
- b. Document the client requirements
- c. Obtain clients approval for the SRS
- d. Identify the constraints of the system
- e. Interview the clients



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When choosing the best **SDLC model** for a project which of the following should be considered?

Select one or more:

- a. Project Name
- b. Project Duration
- c. Type of users
- d. None of the mentioned.
- e. Experience of the development team



18  
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Which of the following is an **ambiguous** requirement?

Select one:

- a. If the user entered a wrong password do not show the welcome page.
- b. Make the login page more "User-friendly".
- c. Library member can reserve books
- d. When the user forgets his password show the "password forgotten?" link.
- e. It should take maximum 10 seconds to load the login page

Next



Example outputs of Requirement Specification are

Select one or more:

- a. User Stories
- b. Design Document
- c. Test cases
- d. Feasibility report
- e. SRS

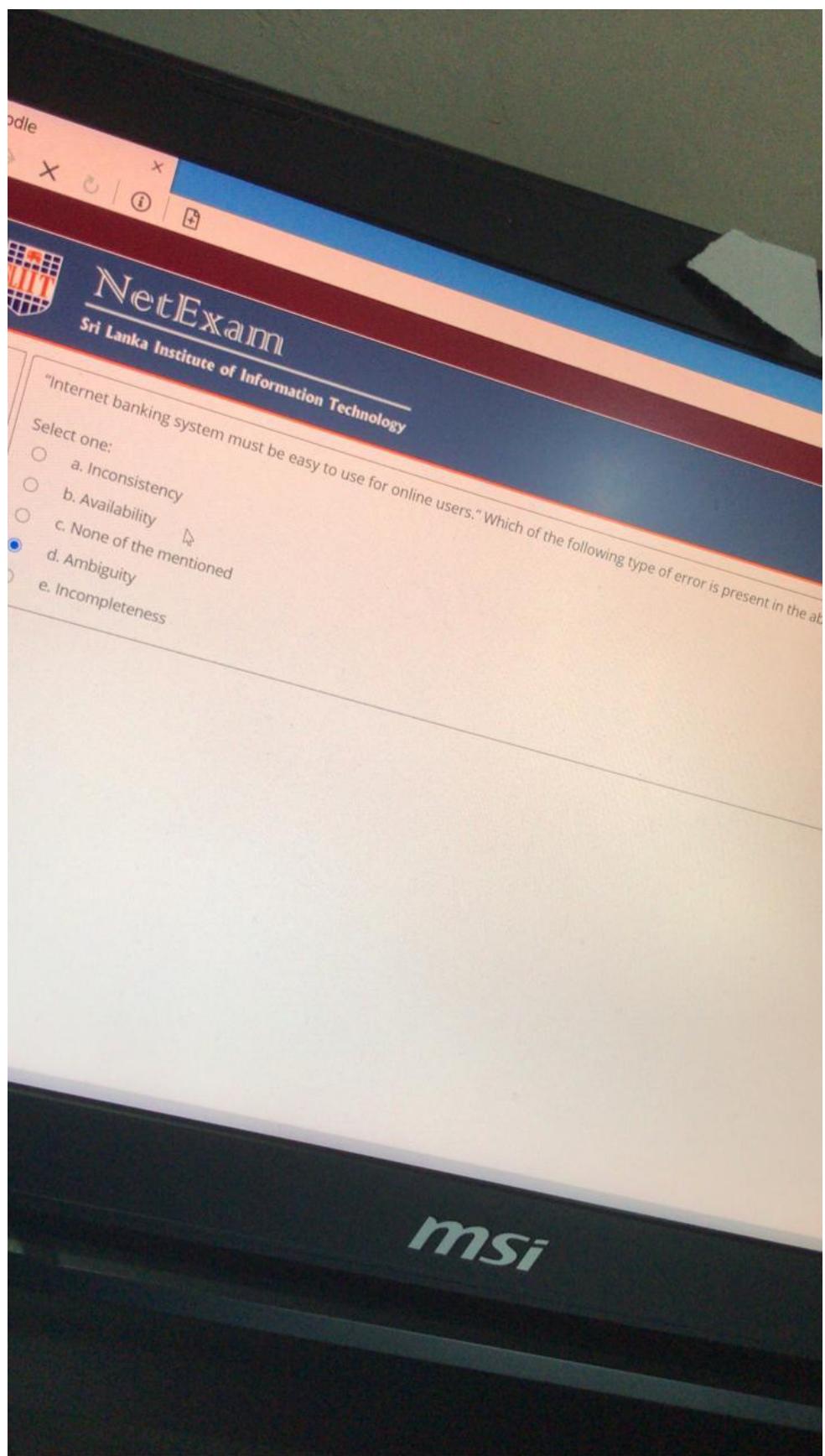
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Which of the following statements are **ambiguous**?

Select one or more:

- a. The system must respond fast.
- b. The software must not require more than 64MB of memory.
- c. The library system must have search book function.
- d. The system must be user friendly to attract more customers.
- e. The library system must have reserve book function.





Which of the following statements are true?

Select one or more:

- a. V-model is best when requirements are not well-designed
- b. V-model is also called validation and verification model
- c. V-model highly focuses on risk mitigation
- d. V-model finds errors easily
- e. V-model is more costly

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Question 18

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Validation phase of *V-model* includes,

Select one:

- a. Unit Testing.
- b. System Testing.
- c. Integration Testing.
- d. All of the mentioned.
- e. Beta Testing

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Which of the following are **not true**?

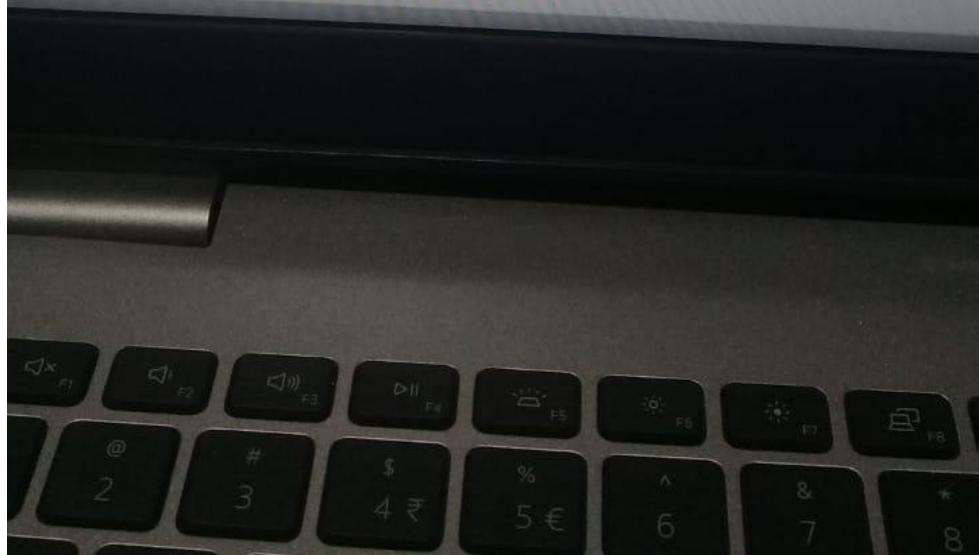
Select one or more:

- a. QA Engineers should also be involved in Requirements Engineering
- b. Requirements Engineering covers the entire development and testing phases
- c. Actors in Use case Diagrams are only involved in Requirements Engineering
- d. None of the mentioned
- e. Requirements Engineering involves writing test cases

Which of the following are **not true**?

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- a. QA Engineers should also be involved in Requirements Engineering
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- d. None of the mentioned
- e. Requirements Engineering involves writing test cases





Question 23

Not yet answered

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Which of the following are **TRUE** about **Critical Systems**?

Select one or more:

- a. People are dependent on Critical Systems.
- b. All software systems are Critical Systems.
- c. An inventory handling system is an example of a critical system.
- d. Credit Card payment system in a bank is an example of a Critical System.
- e. Mission Critical Systems are systems used in war.

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Which of the following are **true** about software?

Select one or more:

a.  
Visual studio is used to develop, debug and test software.

b.  
Oracle is a database management system.

c. Visual Studio is not a software, it is a tool.

d.  
Android is not a software.

e.   
Android is an operating system.



**Question 28**

Not yet answered

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Which of the following statements are TRUE regarding the V-Model?

Select one or more:

- a. None of the mentioned
- b. V-Model is an evolutionary model.
- c. V-Model emphasis on Testing.
- d. V-Model is best for mission critical projects
- e. V-Model is best when the requirements are well defined.

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Which of the statements given below are **true** about a software **prototype**?

- a) Prototype is a working model of part or all of a product
- b) Prototypes can be used as the final product
- c) It is a toy system used to clear out the software system requirements

Select one:

- a. B and C only
- b. B only
- c. A only
- d. A and B only
- e. C only

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"Internet banking system must be easy to use for online users." Which of the following type of error is present in the above requirement?

Select one:

- a. Availability
- b. None of the mentioned
- c. Incompleteness
- d. Inconsistency
- e. Ambiguity

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Question 29  
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Which of the following statements is **not true** about the **Spiral Model**?

Select one:

- a. It is best used for projects which need risk management.
- b. It may use prototyping.
- c. Phases of Spiral model are overlapped
- d. It has four quadrants which focus on specific tasks.
- e. None of the mentioned

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Main goals of Prototyping are to \_\_\_\_\_

Select one or more:

- a. Get the approval from the end user
- b. Understand the end user
- c. Design the system
- d. Manage the development team
- e. Clarify the programming language

Which of the following is **false** about Use Case Diagrams?

Select one:

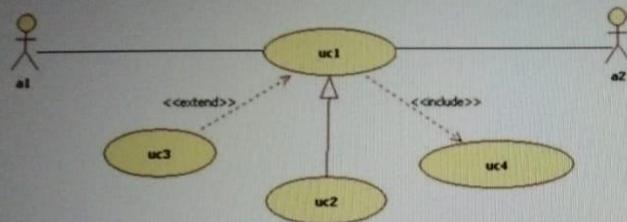
- a. Illustration of the activities that are performed by the users of the system.
- b. A formal way of representing how a business system interacts with its environment.
- c. Definition of the phases in the Unified Process.
- d. A sequence of actions a system performs that yields a valuable result for a particular actor.
- e. System, actors, use cases and relationships are the four basic components of use case diagram.

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Which of the following statements are **TRUE** regarding the diagram given in figure 3?



Select one or more:

- a. When UC1 is triggered UC2 is also triggered.
- b. When UC1 is triggered, UC3 might not be triggered
- c. When UC1 is triggered, UC4 will also be triggered
- d. Both a1 and a2 associate with UC1
- e. None of the mentioned

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In terms of reducing errors at the end, the most **important** phase of SDLC is:

Select one:

- a. Testing
- b. Maintenance
- c. Implementation
- d. Design
- e. Requirements



Which of the following are **TRUE** statement/s about **Critical Systems**?

Select one or more:

- a. If these systems fail to deliver their services as expected then no serious problems and no significant losses may result.
- b. There won't be any significant effect when a critical system fails.
- c. Customer accounting system in a bank is an example for a critical system.
- d. A system whose failure may result in an injury or loss of life.
- e. System whose failure may result in the failure of some goal-directed activity.



Which of the following are **false** regarding a use case?

Select one or more:

- a. It should not describe in detail the quality of the user interface of the system
- b. It should have a name with a verb-noun phrase
- c. It should describe in detail the quality of the user interface of the system
- d. It shows a non-functional requirement in the system
- e. It appears as an ellipse in a use case diagram



**Question 29**

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Select one or more:

- a. Should describe non-functional requirements
- b. Is recognized as white box specification
- c. Should correctly define all of the software requirements
- d. Should describe any design or implementation details
- e. Should impose additional constraints on the software

SRS \_\_\_\_\_

Select one or more:

- a. Should describe non-functional requirements
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- c. Should correctly define all of the software requirements
- d. Should describe any design or implementation details
- e. Should impose additional constraints on the software

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Please choose all options that apply.

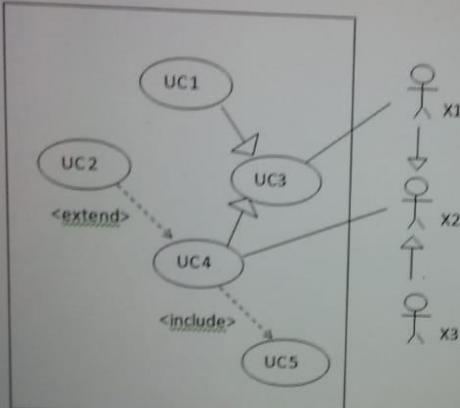


Figure 1

Select one or more:

- a. When UC3 and UC2 are triggered, none of the other use cases will run.
- b. When UC3 is triggered, none of the other use cases will run.
- c. UC5 is a compulsory part of UC4.
- d. X1 can interact with the system using UC1 and UC4.
- e. X2 can interact with the system using UC3 and UC4.

Which of the below statements are TRUE on Requirement Errors?

Select one or more:

- a. If Requirement Errors are not corrected, they will cost a lot.
- b. Unambiguous requirements are a type of requirement error.
- c. Requirement Errors should be corrected after specifying them.
- d. "System should be fast" is an ambiguous requirement.
- e. Requirement Errors should not be discussed with the stakeholders.

Which of the following **best** describes extensions in a use case scenario?

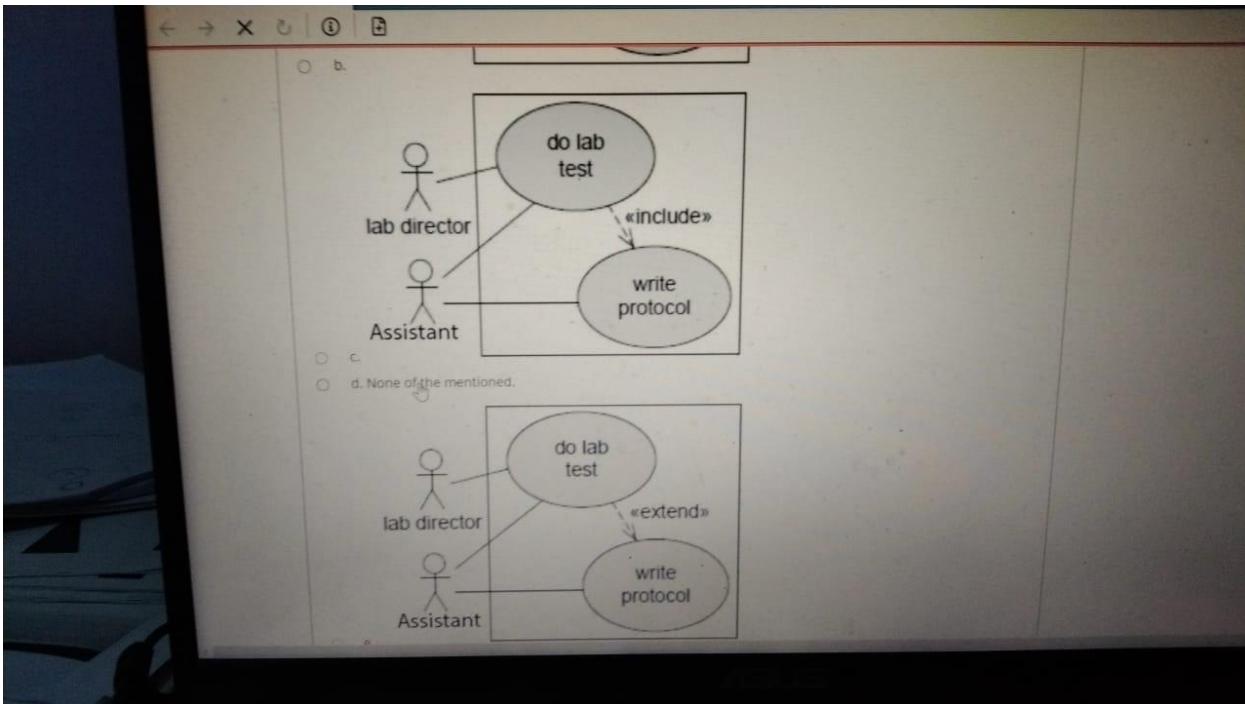
Select one:

- a. Extensions describe alternative behavior for the activities in the use case
- b. Extensions are written under the main scenarios of the use case
- c. Extensions describe mandatory behavior for the activities in the use case
- d. Extensions describe conditions which are true before the activities in the use case are executed
- e. Extensions describe conditions which are true after the activities in the use case are executed

When the phases of Classical Waterfall Life Cycle Model is mapped to four main Software Process activities,

Select one:

- a. Unit testing falls under Software Testing.
- b. Design phase is mapped to Software Specification.
- c. Integration is discussed under Software Validation.
- d. Requirement Gathering is discussed under Software Validation.
- e. Feasibility Study is categorized under Software Analysis.



**Question 18**  
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How do you model the following situation with a Use Case diagram?  
The lab director does a lab test together with his assistant. In some occasions, the assistant has to write a protocol during the lab test.

Select one:

a.

b.

≡ Quiz navigation

Finish attempt ...  
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MULTIPLE CHOICE QUESTIONS

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30			

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Which relationship specifies an optional behaviour?

Select one:

- a. An association
- b. An inheritance
- c. A generalization
- d. An include
- e. An extend

On a use case diagram, the type of relationship that arises when one use case calls another use case is a(n) <sup>T</sup>

Select one:

- a. abstract relationship
- b. association relationship
- c. working relationship
- d. generalization relationship
- e. include relationship

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Question 23  
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Flag question

In the following Use Case Diagram, which actors communicate with Use Case D?

```
graph LR; S((S)) --- D((D)); R((R)) --- D((D)); T((T)) --> F((F)); F((F)) --> D((D)); E((E)) --> D((D))
```

Select one:

- a. T
- b. S
- c. R
- d. S and T
- e. S and R