

1. A feasibility study

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.

2. Design models have the following characteristics

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

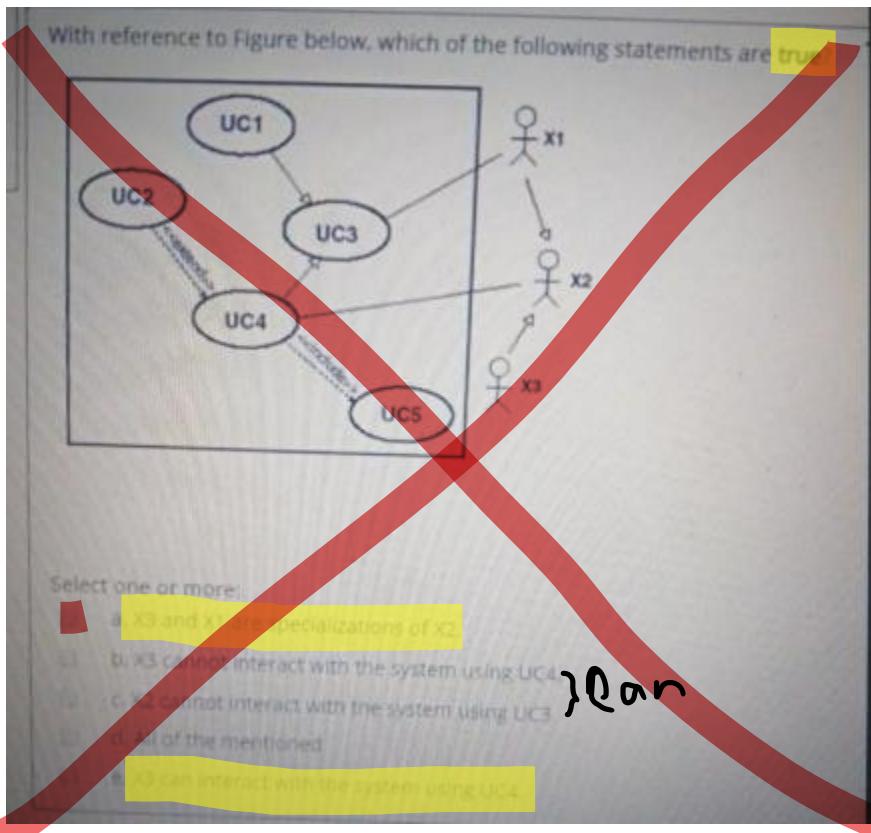
3. Which one of the following is not a step of requirement engineering ?

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

Select one:

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

4. With reference to figure below which of the following statement are true ?



5. Which of the following the development team should not do during first sprint ?

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

6. Which statements are true for use case diagram ?

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 does.
- 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 client.

7. An inconsistent requirement

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

8. which of the following process models goal is to identify and focus ...

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

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9. Which of the following statements are true about a use case

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.

10. Which statements are not true for use case diagram ?

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. ✓

11. SRS

SRS \_\_\_\_\_

Select one or more:

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

12. Which statements are true regarding prototyping

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

13. Which of the following is not true about the incremental model ?

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 features.

14. Which of the below statements are TRUE on ethnography ?

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.

15. Consider a system where a heat sensor detects an instruction and alerts the security company .

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

16. System modeling space may include ?

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

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

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.

18. Which statements are not true for use case diagrams

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

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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.

✓

19. Which of the following about the given diagram are true ?

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

```
graph TD; ActorA((A)) --> UCY((Y)); ActorB((B)) --> UCU((Z)); UCY --- Boundary[Boundary]; UCU --- Boundary;
```

Select one or more:

a. A can ignore Use Case Y.

b. A and B inherit the behaviour of Y.

c. A or B can execute Use Case Z.

d. A and B are not associated with Use Case Y.

20. Which statements are true about the waterfall model ?

**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

21. Who is responsible to accept the product increment?

**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

F\*CK U

22. When the phase of classical waterfall life cycle model s mapped to four main

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.

23. When your customer want to develop a software system but doesn't know how to ...

When your customer wants to develop a software system, but doesn't know how to explain what the system should end up, it is best to apply

Select one:

- a. Classical life cycle model
- b. Incremental model
- c. Evolutionary model
- d. Prototyping model

24. Ethnography in requirement engineering refer to

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

25. Software consists of

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

26. The entry criteria and exist criteria for requirements phase in waterfall model is

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

27. Example of an Ambiguous requirement is

**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#.



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

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. ✓



29. On a use case diagram , the type of relationship that arises when

On a use case diagram, the type of relationship that arises when one use case calls another use case is an

Select one:

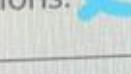
- a. abstract relationship 
- b. association relationship 
- c. include relationship 
- d. generalization relationship 
- e. working relationship 

SBM - Software Quality Assurance

30. Which of the following are included in software requirement specification ?

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. 

31. Which of the following statements is not true ?

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

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

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

Select one:

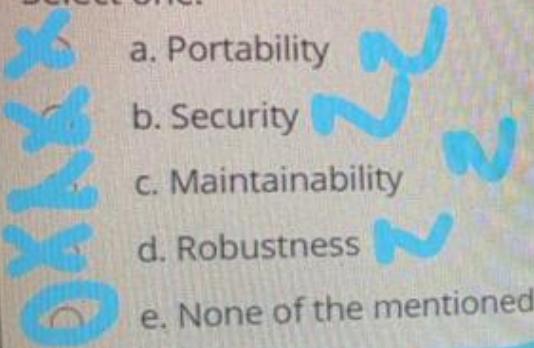
- a. Waterfall model
- b. Prototyping model X
- c. V model
- d. Spiral model X
- e. Incremental model X

33. Which one of the following is functional requirement ?

Which one of the following is a functional requirement?

Select one:

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



34. The features of incremental model are

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

35. Use case scenario contents must include

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



36. Selection of particular life cycle model is not based on

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

37. Internet banking system must allow customers to transfer funds ...

"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.

38. A company needs an inventory

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

39. The system specification describes the

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

40. Which statements below are true about system requirements ?

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.

41. For a well understood data processing application it is best to use ?

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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