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QUESTION 1

Starting from an informal and unstructured description of the facts, semiformal description techniques attempt to take a step in the direction of formality, for example to prevent misunderstandings. One of the semiformal description techniques is the sentence-template. What is the most precise definition of a sentence-template as used for requirements? (1 Point)

- A. A sentence-template is a blueprint for a requirement.
- B. A sentence-template is a blueprint for the semantic filling of the individual requirement elements.
- C. A sentence-template is a blueprint for the syntax and semantics of a requirement.
- D. A sentence-template is a blueprint for the syntactical structure of an individual requirement.

Correct Answer: D

QUESTION 2

You are assigned to carry out and document a system and context delimitation for a software system that is to be developed. What diagram is least suited for the representation of the delimitation? (1 Point)

- A. Class diagram
- B. Use case diagram
- C. State diagram
- D. Context diagram with data flows

Correct Answer: C

QUESTION 3

A new system for monitoring vital functions of patients is to be developed. The system is to be used in intensive care. The usability of the system is especially critical, primarily because the nursing staff must correctly interpret the information indicated by the system and do so under great time pressure. Which two techniques are best suited to identifying the user requirements? (2 Points)

- A. Questionnaires / interviews
- B. Apprenticing
- C. Field surveys
- D. Role playing
- E. Brainstorming

Correct Answer: AD

QUESTION 4

Sentence-templates can be used to document natural language requirements. You want to introduce such a sentence-template in your project and must convince your project manager of its advantages. Which two arguments do most likely put forward in this discussion? (2 Points)

- A. High quality requirements are guaranteed already from the initial documentation.
- B. Requirements that are formulated according to the sentence-template contain no linguistic transformation effects.
- C. Drafting requirements in accordance with sentence-templates can be learned in a short time.
- D. The use of a sentence-template basically delivers greater information content.
- E. A requirement drafted according to a sentence-template satisfies all quality criteria for requirements.

Correct Answer: AB

QUESTION 5

In delimiting system and system context, a differentiation is made between the system boundary and the context boundary. This differentiation is important in order to understand which aspects impact on the requirements of the system to be developed and which do not. Choose the two correct statements. (2 Points)

- A. The context boundary separates the system from the system context.
- B. The system boundary and the context boundary define the system context.
- C. The system context includes all aspects that are not relevant to the requirements of the planned system.
- D. Only the aspects within the system boundary must be taken into account in order to determine the requirements of the system to be developed.
- E. The selection of the system boundary establishes which aspects are covered by the system to be developed and which lie beyond its scope.

Correct Answer: BE

QUESTION 6

For an interview, you have prepared a use case diagram for the system to be specified. You decide to talk through a use case in detail with the stakeholder. You receive very useful feedback which must now be documented. Which of the following means of expression is least suitable to document the details of a single use case? (1 Point)

- A. State diagram
- B. Activity diagram
- C. Natural language
- D. Context diagram

E. Class diagram

Correct Answer: D

QUESTION 7

Within system development, conflicts continually arise between stakeholders with regard to the requirements. As a requirements engineer, how do you handle conflicts in projects best? (1 Point)

- A. You resolve the conflict with the best resolution technique available to you.
- B. You analyze the conflict, try to bring about a solution with a suitable technique and document relevant information about the conflict.
- C. You ignore the conflict since this is a matter for project management.
- D. In order to resolve such conflicts you escalate them via the escalation paths defined in the project.

Correct Answer: B

QUESTION 8

Requirements documentation can either be natural language or model-based. Which two statements are most applicable? (2 Points)

- A. If documentation is model-based, natural language documentation can be dispensed with.
- B. As models are more formal, they offer a higher degree of uniqueness compared to natural language.
- C. In requirements engineering models are more suitable than textual descriptions to reduce the complexity of the entity being considered.
- D. When deciding between model-based and natural language documentation, model-based is preferable.

Correct Answer: AB

QUESTION 9

In order to document a door system for a underground railway system, the following activity diagram has been modelled. You reconcile this diagram with your notes. Which two of the following notes were not represented in the diagram? (1 Point)

Your notes:

- A. Double pressing of the door button countermands the currently running action.
- B. The tread is pulled in once the door is closed.
- C. The light-emitting diode is deactivated at the end of the process.
- D. If the door is open, it is subsequently closed.

E. If the door is closed, it is subsequently opened.

Correct Answer: AC

QUESTION 10

You are to create a requirements specification for an internet banking software. The system shall perform bank credit transfers and therefore receives from the user, among other information, the bank identification code and the name of the bank. Now things have changed so that only the bank identification code must be entered by the user and the bank name is no longer required. On which part of your documentation do you most likely have to work in order to incorporate this change? (2 Points)

A. Nowhere, since this is a detail for the architecture.

B. In the chapter in which the states of the system are described.

C. As a change in the goals has been communicated, the goals in the specification must be updated.

D. If it is about inputs and outputs of the system, this change has to be worked into the context diagram.

E. You have to adjust the class model and/or the data model, which describe the structure of the system's input and output data.

Correct Answer: CD

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