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QUESTION 1

You model invoices and invoice items with a UML class diagram. Explanation: The total amount of an invoice is calculated by summing up all individual invoice items. This means that an invoice showing 5 article prices contains 5 invoice items. What model element most accurately describes the relationship between invoice and invoice items? (1 Point)

- A. Composition
- B. Aggregation
- C. Generalisation
- D. Association

Correct Answer: A

QUESTION 2

Your company works intensively with models in requirements engineering and uses UML for the description of models. Which three capabilities should a modeling tool possess in order to be able to create traceable models in the requirements engineering? (3 Points)

- A. The model elements can be stored under version control
- B. The models are checked for conformity with the UML definition
- C. The model is exported in the XML format
- D. Every model element must possess an ID
- E. Model elements can be linked via hyperlinks
- F. The modeling tool creates reports suitable for management

Correct Answer: ACE

QUESTION 3

The activity diagram below shows a simplified order processing procedure. Which of the following statements is correct for this flow?

(2 Points)

- A. The flow is not modelled correctly, since no condition (branch) should be present within a fork.
- B. The flow is modelled correctly: the goods branch as well as the export and domestic order branch are processed in parallel to one another.
- C. The flow is not modelled correctly, since the branches for the domestic and export orders must be consolidated via a



diamond symbol.

D. The flow is modelled correctly and the "issue invoice" activity is conducted after the "compile goods" activity.

Correct Answer: C

QUESTION 4

You carry out modelling of requirements with a use case diagram. Which answer best describes its prospective modelling elements?

(1 Point)

- A. Objects, activities and associations
- B. Actors, messages and activities
- C. Objects, use cases and activities
- D. Actors, use cases and associations

Correct Answer: D

QUESTION 5

You are employed as a requirements engineer in a company that develops control software for electric motors. During your work it becomes increasingly evident that the developers are very well aware of the necessary requirements, even though the requirements are not documented in their entirety. Nevertheless, you decide to document requirements systematically.

Which two of the following

arguments justifies this step? (2 Points)

Documenting requirements systematically is important, because...

- A. ... implementation without documented requirements is not possible.
- B. ... non-documented requirements are difficult to negotiate between the stakeholders.
- C. ... the coverage of the requirements by means of test cases cannot be checked.
- D. ... documented requirements are also good requirements.

Correct Answer: CD
