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QUESTION 1

As input for the system development, the Board of Directors of an automotive manufacturer has specified the following goals:

1.

The infotainment system should be easy to operate.

2.

The user must be able to operate the system without becoming distracted from the road traffic.

3.

The system should function without an additional power source.

4.

The system should be configurable for various models of car.

With which two approaches can these goals be detailed and refined best? (2 Points)

- A. Clear specification of the goals with the help of use casesand the associated activity diagrams.
- B. Documentation of the goals in a sequence diagram.
- C. Decomposition of the goals with the help of goaltrees, in order to obtain more concrete goals.
- D. Formulation of other goals, since the given goals are not feasible.

Correct Answer: AB

QUESTION 2

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 3

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 4

You are employed as a requirements engineer in a company in the logistics sector and are involved in a

project that aims to replace a legacy application for distribution and shipment of goods with a new system.

A colleague has already created a context diagram.

You are assigned to check this. What are your thoughts about this? Indicate for each statement whether it

is true or false. (3 Points)

True	False	
A	В	The problem assignment of the system cannot be derived from the diagram.
C	D	The relationship between truck and truck driver is not necessary.
E	F	The actor with the designation "???" and the data flow "Goods???" should be omitted, because there is not enough information about them and there are too many ambiguities.
G	Н	The relationship between loading crane and the system is not specified in sufficient detail.

- A. A
- В. В
- C. C
- D. D
- E. E



F. F

G. G

Н. Н

Correct Answer: ACFG

QUESTION 5

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

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