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QUESTION 1

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

QUESTION 2

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 3

Assess the following statements about the natural language documentation of requirements in terms of being applicable or not applicable. (2 Points)

Applies	Does not apply	
A	B	Natural language requirements cannot be misunderstood.
C	D	Natural language requirements are mainly suitable for the behavioral perspective.
E	F	Natural language requirements must be formulated in accordance with a template.
G	H	Natural language is not a suitable means of expression for quality requirements.
I	J	Natural language requirements are not a suitable means of communication for software architects and programmers.

A. A

B. B

C. C

D. D

E. E

F. F

G. G

H. H

I. I

J. J

Correct Answer: BDFHJ

QUESTION 4

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 5

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 6

At a technical college, each student is supervised by a lecturer. Some lecturers supervise several students, some none. Which of the following class diagrams best shows this student-lecturer relationship? (2 Points)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

QUESTION 7

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 cases and the associated activity diagrams.
- B. Documentation of the goals in a sequence diagram.
- C. Decomposition of the goals with the help of goal trees, in order to obtain more concrete goals.
- D. Formulation of other goals, since the given goals are not feasible.

Correct Answer: AB

QUESTION 8

Requirements elicitation: Your company has received a customer contract to develop a system for the scheduling of the customer's delivery vans. It is your task to identify the requirements for this scheduling system. You have arranged appointments for interviews with three key members of the customer's staff, and are now preparing interview questions. Which of the questions below are appropriate interview questions for the requirements elicitation? (2 Points)

- A. What are the most important technical terms for the application and how are they defined?
- B. If the delivery deadline is not met, is a contract penalty to be paid?
- C. What data quantities / data rates are to be processed?
- D. When is the installation of the completed system to be started?

Correct Answer: C

QUESTION 9

Which of the following elements are elements of a state diagram and which are not? Please indicate true or false.

True	False	
A	B	Event
C	D	Initial state
E	F	State Transition
G	H	Interaction
H	I	Actor

- A. A
- B. B
- C. C
- D. D

E. E

F. F

G. G

H. H

I. I

J. J

Correct Answer: ACEHJ

QUESTION 10

Which definition best characterizes the term "traceability" in terms of requirements engineering? (2 Points)

- A. Traceability of the effort for the elicitation of requirements, beginning with the elicitation of the documentation right to the point of requirements acceptance
- B. Monitoring of progress in requirements elicitation
- C. Ability to analyze requirements for contradictory content, especially between the requirements specifications and the test cases
- D. Traceability of the requirements, along with the associated documents, from the requirements elicitation to the implementation
- E. Level of stabilisation between the elicited and approved requirements

Correct Answer: D

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