

Exam Questions 2

Group D

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1 Writing a proposal

Proposition

Consider that you are writing a proposal to your client, then it is beneficial if the client has given you little information as it will force you to visit the client and get more domain knowledge.

Reason

A visit to the customer is a good idea if she/he has not given you any background information about why she/he needs the system. Then you can get a clearer view of why she/he needs that system.

Correct Answer

D, the proposition is wrong but the reason is a correct statement.

Motivation

The reason is correct as visiting the client often increases the domain knowledge. Even if it is good to visit the client, it is NOT beneficial if they have given you so little information that it forces you to do so.

Reference

Lau:7, p.308-312

Learning objective

1.1.3

Main responsible

Alexander Nässlander

2 Quality Requirements

Proposition

Correctness is a very important quality factor for systems operating in high risk situations, such as in outer space.

Reason

Correctness is the measure of how accurately the system performs tasks and delivers information.

Correct Answer

C, the proposition is true, but the reason is false.

Motivation

When operating in high risk environments it is vital that there are no errors in the system, considering it's a situation of life and death. Correctness is however not a measurement of how accurately a system performs tasks, but rather a measurement of how many errors it contains.

Reference

Lau: 6, p. 220

Learning objective

1.1.1, 1.1.3

Main responsible

Johan Mattsson

3 Quality Requirements

Proposition

The different breakpoints (utility, differentiation, saturation) in the Quper-model are based on the current market expectations.

Reason

The competing products are placed in the model as a reference

Correct Answer

B: Both the proposition and the reason are correct statements, BUT the reason does not explain the proposition.

Motivation

The breakpoints are based on market expectation and not directly linked to competing products, they are linked to what is acceptable in the current market. The competing products are also used in the Quper-model but they have their own dots.

Reference

Quper article: p.45

Learning objective

1.1.3, 1.1.6

Main responsible

Hannes Johansson

4 Validation

Proposition

It is not necessary for developers and clients to review the tasks.

Reason

Tasks are only there for providing context to the requirements.

Correct Answer

E, both the proposition and the reason are false.

Motivation

The people writing the specification might have missed requirements that emerges when reviewing the tasks. Tasks are not only for providing context but are also requirements themselves (task requirements).

Reference

Lau: 9, p. 382-385

Learning objective

1.1.1, 1.1.4

Main responsible

Mattias Eklund

5 Checking and Validation

Proposition

The CRUD-matrix is used to find missing quality requirements

Reason

The CRUD-matrix can be used to check the requirement specification for missing parts or inconsistencies

Correct Answer

D, the proposition is false, but the reason is a true statement.

Motivation

The CRUD-matrix checks for missing parts or inconsistencies in the functional context. The reason is true since the CRUD-matrix can be used to check the requirements specification, but it cannot detect all kinds of missing parts. The check does for example not help in finding/checking quality requirements, and therefore the proposition is false.

Reference

Lau: 9, p. 386

Learning objective

1.1.1, 1.1.2, 1.1.4

Main responsible

Emma Holmberg Ohlsson

6 Market Driven Requirements Engineering

Proposition

Considering the alfa/beta model of MDRE selection quality. Alfa requirements are high quality requirements which should be selected.

Reason

When using MDRE, it can be useful if the development organization can collaborate together with the marketing department.

Correct Answer

B, both reason and proposition are correct but the reason does not explain the proposition.

Motivation

The alfa requirements are the "golden grains" from the MDRE process as expressed in the text. And it is true that the marketing department can be an asset when doing MDRE as they typically know more about the market and the potential buyers. But the two statements are not correlated.

Reference

MDRE article: sect 13.3.1 and 13.2.2.

Learning objective

1.1.1, 1.1.6

Main responsible

Philip Holgersson

7 Market Driven Requirements Engineering

Proposition

A company using MDRE should define its processes before expanding its operations.

Reason

Without well defined processes it is hard to transfer knowledge between personnel.

Correct Answer

A, both the proposition and the reason are true. Also, the reason explains the proposition.

Motivation

Companies without a defined process take a significant risk if key persons leave the organization, since they lack the necessary documentation and structure. In times of downsizing or rapid expansion it is very difficult to install a repeatable process.

Reference

MDRE: sect 13.2.3

Learning objective

1.1.5, 1.1.6

Main responsible

Fredrik Åkerberg

8 Agile Requirements Engineering

Proposition

Some quality requirements, such as security and scalability, have a tendency to be neglected when using agile RE.

Reason

When working with agile RE the prioritization is often based on the product owner's business value, which is rarely defined as high security or scalability.

Correct Answer

A, the proposition is correct and the reason explains why.

Motivation

The article on AGRE brings up the neglect of quality requires as a challenge with AGRE. It also says that the increased interaction with the product owner leads to prioritization decisions to be based on business value.

Reference

AGRE article: p. 64

Learning objective

1.1.3, 1.1.6

Main responsible

Martin Richter