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**IREB Examination**  
**Certified Professional for Requirements Engineering**  
**Advanced Level Requirements Management**  
**- Practitioner -**

**Multiple-Choice Practice Examination**

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<b>Questionnaire:</b>	<b>Set_Public_EN_2.0.0</b>
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<b>Syllabus:</b>	<b>Version 3.0</b>
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### Explanation of the practice examination

This practice examination provides an example of an actual IREB Requirements Engineering Advanced Level Requirements Management - Practitioner - examination. It can be used when preparing for the actual examination.

With regard to form, structure, and style, this practice examination is based on real examinations. The main difference is that this examination contains only 30 questions, whereas real examinations contain approximately 45 questions. Therefore, to simulate realistic examination conditions, this examination should be completed in 50 minutes. For a real examination with approximately 45 questions, 75 minutes are available. For more information on the examination refer to the document "Examination Regulations for the Certified Professional for Requirements Engineering Advanced Level - Practitioner -" at <https://www.ireb.org/en/downloads/#cpre-advanced-level-practitioner-examination-regulations>.

If you want to use this practice examination under realistic conditions, print out the examination and answer the questions without means such as training materials or books within 50 minutes. Make sure that you encounter as little disturbance as possible when answering the questions.

**In order to pass this examination, as in an actual examination, a mark of 70,00 percent has to be achieved—that is, 31.50 points out of a maximum 45 possible points for the practice examination at hand.**

### Evaluation of the results:

In the document "Answers to the Practice Examination" you will find the correct answers. To determine the number of points achieved, apply the rules for evaluating the answers from the document "Certified Professional for Requirements Engineering (CPRE) Foundation Level – Examination Guideline", in the section "Three types of questions" (available at <http://www.ireb.org>).

Use the Excel file "CorrectionAidForThePracticeExam" to record your answers. The total number of points achieved and a comment about whether you have passed or failed are output automatically.

### Terms of use:

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## 1. What Is Requirements Management?

1. Which two activities of requirements management best answer the question "Which requirement generates too high costs with too little benefit?" (2 answers) A3P0104  
1 point

<input type="checkbox"/>	A) Assignment of attributes
<input type="checkbox"/>	B) Traceability
<input type="checkbox"/>	C) Evaluation and prioritization
<input type="checkbox"/>	D) Versioning
<input type="checkbox"/>	E) Management of the processes

2. Which two of the following questions can best be answered by the versioning of requirements? (2 answers) A3P0105  
1 point

<input type="checkbox"/>	A) Which requirements are part of the system?
<input type="checkbox"/>	B) Which requirements are urgent and important?
<input type="checkbox"/>	C) Which version of the requirement was implemented in my system?
<input type="checkbox"/>	D) Which requirements come from which source?
<input type="checkbox"/>	E) Who was the last person to change the requirement?

## 2. Requirements Information Model

3. Which level of abstraction is sufficient for detailing requirements? Select the most suitable criterion. (1 answer) **A3A0204**

**1 point**

<input type="checkbox"/>	A) The residual risk resulting from the remaining degree of freedom is acceptable for all stakeholders.
<input type="checkbox"/>	B) The requirements answer all the questions of the downstream development steps.
<input type="checkbox"/>	C) All stakeholders are aware of the remaining degree of freedom in the specification.
<input type="checkbox"/>	D) At least one solution-based requirement is described for each goal.

4. Which of the following content should be part of a requirements management plan? For each content, indicate whether it should be included in the requirements management plan or not.

**A3K0205**

**2 points**

Included	Not included	
<input type="checkbox"/>	<input type="checkbox"/>	A) Definition of the tool to be used to manage requirements variants
<input type="checkbox"/>	<input type="checkbox"/>	B) Definition of the specific criteria for prioritizing requirements for selection of the relevant requirements for release 3.2
<input type="checkbox"/>	<input type="checkbox"/>	C) Definition of the levels of detail at which the requirements specification should be created
<input type="checkbox"/>	<input type="checkbox"/>	D) Definition of the forms of presentation to be used for the requirement types used

### 3. Assigning Attributes and Views for Requirements

5. With the attribution of requirements, some objectives are linked to the structured documentation of requirements. Which of the following statements is most INCORRECT? (1 answer)

A3A0307

1 point

<input type="checkbox"/>	A) The assignment of attributes to requirements can be used to check the completeness of the documentation.
<input type="checkbox"/>	B) The assignment of attributes to requirements makes it easier for employees to become familiar with requirements engineering.
<input type="checkbox"/>	C) The assignment of attributes to requirements is a prerequisite for release management.
<input type="checkbox"/>	D) The assignment of attributes to requirements allows you to identify the author of a requirement.

6. For the successful use of the attribution of requirements, it is necessary to be clear at the beginning of a requirements engineering process with which goal the respective attributes are to be used.

A3K0308

2 points

Indicate true or false for each of the following statements.

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) Defining the goal reduces the risk of any subsequent adjustment to the attribute schema.
<input type="checkbox"/>	<input type="checkbox"/>	B) Defining the goal makes the direct benefit clear for the requirements engineer.
<input type="checkbox"/>	<input type="checkbox"/>	C) Defining the goal increases the probability that the respective attribute will be filled out.
<input type="checkbox"/>	<input type="checkbox"/>	D) Defining the goal makes it easier to differentiate between significant and insignificant attributes when defining an attribute schema.

7. Indicate true or false for the following statements about the definition of an attribute schema. **A3K0309**  
2 points

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) The process for defining an attribute schema contains many activities that are also executed in a requirements engineering process.
<input type="checkbox"/>	<input type="checkbox"/>	B) Attributes should be selected such that the person who sets the specific attribute value for a requirement also achieves a direct benefit from the attribute.
<input type="checkbox"/>	<input type="checkbox"/>	C) There are attributes for which the value set should not be extended as part of a requirements engineering process.
<input type="checkbox"/>	<input type="checkbox"/>	D) The specification of declaring an attribute as a mandatory field in a company-wide reference attribute schema supports the monitoring of requirements engineering processes in the company.

8. During the course of a project, it may be necessary to delete the attribute value of a specific attribute. Indicate true or false for the following statements. **A3K0310**  
2 points

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) Deleting an attribute value does not cause any problems because the use of a tool ensures that the requirements documentation remains consistent.
<input type="checkbox"/>	<input type="checkbox"/>	B) Before deleting the attribute value, you must analyze whether reports use the value.
<input type="checkbox"/>	<input type="checkbox"/>	C) Deleting an attribute value does not cause any problems because a tool will automatically set the value "NULL" for the attribute in the respective requirements.
<input type="checkbox"/>	<input type="checkbox"/>	D) The deletion of an attribute value during the requirements engineering process must be communicated to all parties affected.

9. To get an initial overview of the requirements situation, you check the current assignment of attributes to the requirements. During this review, you notice the following (see the table excerpt) with regard to the use of the attributes.

A3K0311

2 points

Req. ID	Requirement	Stability	Importance	Priority	Responsible
KD-008	The press may only become active if the activation buttons are pressed within 2 seconds.	Stable	High	A	Miller
SC-009	The activation buttons must be debounced.	FIXED	High	B	Miller
SC-010	The activation buttons must have a stainless steel surface.	Being clarified	High	A	
SEC-011	The activation counter must be secured to prevent manipulation.	Stable	High	B	Jones

Indicate true or false for the following statements.

True  
False

<input type="checkbox"/>	<input type="checkbox"/>	A) The attribute "Req ID" must not have different alphanumeric prefixes ("KD", "SC", "SEC").
<input type="checkbox"/>	<input type="checkbox"/>	B) For the attribute "stability" there seems to be no defined value range, so that the data is almost worthless.
<input type="checkbox"/>	<input type="checkbox"/>	C) The attribute "Responsible" is a mandatory field.
<input type="checkbox"/>	<input type="checkbox"/>	D) One of the attributes "Importance" or "Priority" is unnecessary and should be removed, as they both contain the same information.

## 4. Evaluation and Prioritization of Requirements

10. Which of the following statements is the most important reason for applying analytical prioritization techniques instead of ad-hoc prioritization techniques? (1 answer)

A3A0405

1 point

<input type="checkbox"/>	A) The weighting of the prioritization criteria is very different.
<input type="checkbox"/>	B) The prioritization involves a lot of stakeholders.
<input type="checkbox"/>	C) The requirements to be prioritized are very critical.
<input type="checkbox"/>	D) A requirements management tool can support the calculation of the priority.



## 5. Version and Change Management

11. Which two main activities make up the version control for requirements and requirements documents? (2 answers) **A3P0503**

**1 point**

<input type="checkbox"/>	A) Selection of a versioning tool
<input type="checkbox"/>	B) Definition of an identification schema for versions
<input type="checkbox"/>	C) Identification of the file versions used
<input type="checkbox"/>	D) Identification of the versions of individual requirements
<input type="checkbox"/>	E) Identification of baselines

## 6. Requirements Traceability

12. Which of the following definitions is the best description of "pre-requirements specification"? (1 answer)

A3A0609

1 point

<input type="checkbox"/>	A) Traceability of requirements to upstream goals and visions
<input type="checkbox"/>	B) Traceability between different requirements
<input type="checkbox"/>	C) Traceability of development artifacts to their requirements
<input type="checkbox"/>	D) Traceability of requirements to their origin

13. You are the requirements engineer in a project in which a wide variety of tools is used to document development artifacts. Business processes are documented in ARIS, technical requirements are documented in Word, IT requirements are documented in Excel, activity diagrams are documented in Rational Rose, and test cases are documented in Quality Center. Which two forms of presentation for traceability relationships would you most recommend to reflect traceability between these artifacts which are documented in different tools? (2 answers)

A3P0610

1 point

<input type="checkbox"/>	A) Textual references
<input type="checkbox"/>	B) Traceability matrices
<input type="checkbox"/>	C) Traceability graphs
<input type="checkbox"/>	D) Hyperlinks
<input type="checkbox"/>	E) Traceability tables

14. Indicate true or false for the following statements about the application of traceability relationships.

A3K0611

2 points

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) Traceability relationships of the class "Content" are used to trace which requirements contradict each other in terms of content.
<input type="checkbox"/>	<input type="checkbox"/>	B) Traceability relationships of the class "Documentation" are used to trace which justifications have led to a requirement.
<input type="checkbox"/>	<input type="checkbox"/>	C) Traceability relationships of the class "Conditions" are used to trace which refinements a requirements artifact has gone through.
<input type="checkbox"/>	<input type="checkbox"/>	D) Traceability relationships of the class "Evolution" are used to trace which requirement has been used to replace another requirement.

## 7. Variant Management for Requirements

15. Note the following excerpt from a requirements specification with the statements it contains on product variability.

A3K0708

2 points

ID	Requirement	Product	Market
R42	The system should accept payments by credit card.	Easy-Book Easy-CD	USA Europe
R43	The system should accept payments via PayPal.	Easy-Book	USA
R44	The system should accept payments via immediate transfer.	Easy-CD	USA Europe

Evaluate this form of presentation by indicating, for the following statements, whether they are true or false.

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) The requirements for a product can be changed without affecting other products.
<input type="checkbox"/>	<input type="checkbox"/>	B) When a new product is added, all requirements must be reevaluated.
<input type="checkbox"/>	<input type="checkbox"/>	C) The requirements for different products can be compared with one another.
<input type="checkbox"/>	<input type="checkbox"/>	D) The attributes "Market" and "Product" can be used to uniquely identify the products in which the respective requirement is valid in the respective market.

16. Again, note the following excerpt from a requirements specification.

A3A0709

ID	Requirement	Product	Market
R42	The system should accept payments by credit card.	Easy-Book Easy-CD	USA Europe
R43	The system should accept payments via PayPal.	Easy-Book	USA
R44	The system should accept payments via immediate transfer.	Easy-CD	USA Europe

2 points

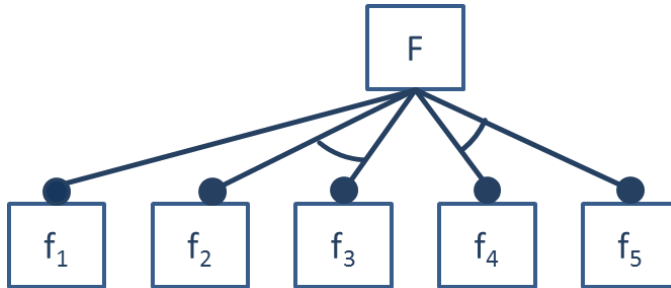
**Payment by credit card should now no longer be possible for Easy-CD in Europe, but it should still be possible in the USA. What effect does this have on the requirements specification? (1 answer)**

<input type="checkbox"/>	A) No change necessary
<input type="checkbox"/>	B) Duplication of requirement R42 to make two requirements, R42 and R42a, with a change in the attribute "Market"
<input type="checkbox"/>	C) Duplication of requirement R42 to make two requirements, R42 and R42a, with a change in the attribute "Product"
<input type="checkbox"/>	D) Duplication of requirement R42 to make two requirements, R42 and R42a, with a change in the attributes "Product" and "Market"

17. Note the following feature model.

A3P0710

2 points



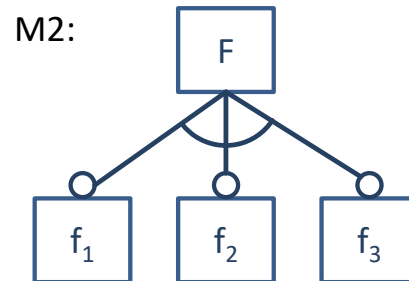
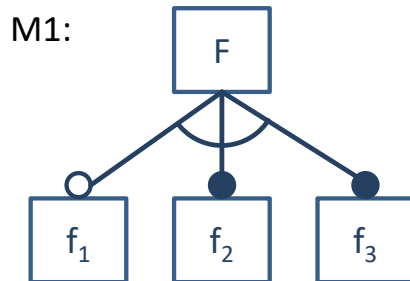
Which two valid configurations can be built according to the feature model? (2 answers)

<input type="checkbox"/>	A) {F; f1; f2; f4}
<input type="checkbox"/>	B) {F; f2; f3; f4}
<input type="checkbox"/>	C) {F; f1; f2; f3; f5}
<input type="checkbox"/>	D) {F; f2; f5}
<input type="checkbox"/>	E) {F; f1; f3; f5}

18. Note the following two feature models.

A3A0711

2 points



Which statements about the feature models are correct? (1 answer)

<input type="checkbox"/>	A) M1 enables more valid product configurations than M2.
<input type="checkbox"/>	B) M1 and M2 both describe the same valid product configurations.
<input type="checkbox"/>	C) M1 enables fewer valid product configurations than M2.
<input type="checkbox"/>	D) M1 and M2 enable an identical number of but different product configurations.

19. Note the following excerpt from a requirements document.

A3P0712

ID	Requirement
R52	The cover of the printing press must be made from plastic or stainless steel.
R53	The type of plastic used must be embossed in a cover made from plastic.
R54	Permitted stainless steels are V2A or V4A.
R55	The surface of a cover made from stainless steel must be anodized.

2 points

Which two variants can be identified in the requirement text? (2 answers)

<input type="checkbox"/>	A) Cover
<input type="checkbox"/>	B) Printing press
<input type="checkbox"/>	C) Plastic
<input type="checkbox"/>	D) Stainless steel
<input type="checkbox"/>	E) Surface



20. There are different forms of representation for modeling variability. Different descriptions and forms of presentation are given below. Assess which statement is true or false based on the three descriptions. A3K0713  
2 points

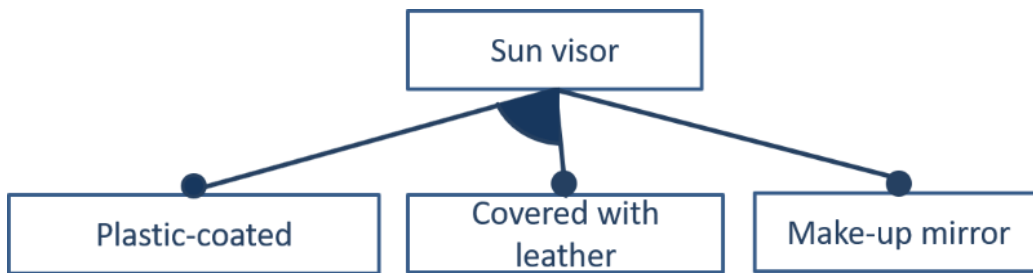
**Description 1**

ID	Requirement
R32	The A-Class sun visor should be plastic-coated.
R33	The E-Class sun visor should be covered with leather.
R34	The sun visor in all products should contain an illuminated make-up mirror.

**Description 2**

ID	Requirement	A-Class	E-Class
R32	The sun visor should be plastic-coated.	X	
R33	The sun visor should be covered with leather.		X
R34	The sun visor should contain an illuminated make-up mirror.	X	X

**Description 3**



**True**  
**False**

<input type="checkbox"/>	<input type="checkbox"/>	A) Description 1 is a textual, implicit assignment of requirements to specific products.
<input type="checkbox"/>	<input type="checkbox"/>	B) Description 2 is an explicit assignment of requirements to specific products.
<input type="checkbox"/>	<input type="checkbox"/>	C) From a content perspective, description 2 states the same as description 1.
<input type="checkbox"/>	<input type="checkbox"/>	D) From a content perspective, description 3 states the same as description 1.

## 8. Reporting in Requirements Management

21. Which of the following statements about reporting in requirements management is most applicable? (1 answer)

A3A0804

1 point

<input type="checkbox"/>	A) The development of special key figures to justify decisions
<input type="checkbox"/>	B) The collection and presentation of information as an integral part of fixed tender documents
<input type="checkbox"/>	C) The collection, evaluation, and presentation of information as the basis for decisions
<input type="checkbox"/>	D) The recording of articles for the requirements engineering magazine

22. Complete the following statement: "Goal, question, metric is a method for ..." (1 answer)

A3A0805

1 point

<input type="checkbox"/>	A) ... identifying as many questions as possible in a short time
<input type="checkbox"/>	B) ... defining goal-oriented key figures using a non-systematic procedure
<input type="checkbox"/>	C) ... ensuring that relevant key figures are used in reports
<input type="checkbox"/>	D) ... creating a key figure that defines a goal for each question

23. In the middle of a project, a degree of completion of 45% is determined. This is 5% less than planned. Evaluate all the statements listed as "True" or "False". A3K0806  
2 points

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) The project goal can still be reached at the planned project completion.
<input type="checkbox"/>	<input type="checkbox"/>	B) If the degree of completion continues to develop in the same way over the course of the project, the degree of completion at the planned project end date will be a maximum of 90%.
<input type="checkbox"/>	<input type="checkbox"/>	C) The project end date must be defined according to the following formula: New_end_date = start_date + (current_date - start_date)/45 * 100.
<input type="checkbox"/>	<input type="checkbox"/>	D) The additional costs of €20,000 determined in the middle of the project means at least €40,000 of additional costs for the project at the planned project end if the project continues to develop in the same way.

## 9. Managing Requirements Engineering Processes

24. Which two of the following statements are most applicable to lightweight requirements specifications? (2 answers) **A3P0909**

1 point

<input type="checkbox"/>	A) Lightweight requirements are only specified in detail when their implementation is about to begin.
<input type="checkbox"/>	B) Lightweight requirements are generally not specified in detail.
<input type="checkbox"/>	C) The details of the implementation are discussed verbally, often without being documented.
<input type="checkbox"/>	D) Lightweight specifications exist only in iterative development.
<input type="checkbox"/>	E) Upfront specifications do not exist in agile development.

25. Indicate true or false for the following statements on upfront requirements specifications.

**A3K0910**

2 points

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) Upfront requirements specifications make sense if the requirements for the entire project can be designed such that they are stable and few surprises are expected.
<input type="checkbox"/>	<input type="checkbox"/>	B) Upfront requirements specifications are useful for projects with a fixed price.
<input type="checkbox"/>	<input type="checkbox"/>	C) In a volatile environment, upfront requirements specifications can prevent requirements changing.
<input type="checkbox"/>	<input type="checkbox"/>	D) Upfront requirements specifications are required in particular for innovative projects.

26. Which two of the following statements regarding handling changes to requirements are most applicable? (2 answers)

A3P0911

1 point

<input type="checkbox"/>	A) In a project with a fixed price, subsequent changes to the project scope are not possible.
<input type="checkbox"/>	B) In a project with a fixed price, subsequent changes to the project scope are only possible via change requests.
<input type="checkbox"/>	C) In agile development, requirements changes are equivalent to the other requirements in the product backlog which are not yet been implemented.
<input type="checkbox"/>	D) Change requests are not possible in agile development.
<input type="checkbox"/>	E) The product backlog must not contain any changes.

27. Which of the following statements is most applicable with regard to controlling the requirements engineering process? (1 answer)

A3A0912

1 point

<input type="checkbox"/>	A) There must be no deviation from the planned requirements engineering process.
<input type="checkbox"/>	B) In the event that the requirements engineering process deviates from the plan, the plan is adapted to the progress.
<input type="checkbox"/>	C) In order to detect deviations of the requirements engineering process from the plan at an early stage, this process must be monitored.
<input type="checkbox"/>	D) In a project with a fixed price, changes to the plan after the contract has been agreed are not possible.

28. When testing the prototype, the end users discover a lot of errors in the software that can be traced back to errors in the requirements specification. Which two of the following measures are you most likely to take? (2 answers) **A3P0913** **1 point**

<input type="checkbox"/>	A) We change over to agile development so that errors in the requirements are detected earlier.
<input type="checkbox"/>	B) We review the requirements and verify the quality of the requirements.
<input type="checkbox"/>	C) The requirements engineering process is improved using CMMI.
<input type="checkbox"/>	D) We plan a process improvement for the requirements engineering process using the template according to Wiegers.
<input type="checkbox"/>	E) A cause analysis is performed to investigate how precisely these errors have occurred. Suitable improvements to the requirements engineering process are then sought.

## 10. Requirements Management in Agile Projects

29. Which statements about agile approaches are true and which are false? **A3K1003**  
**2 points**

True	False	
<input type="checkbox"/>	<input type="checkbox"/>	A) Agile approaches are a homogeneous group of development approaches.
<input type="checkbox"/>	<input type="checkbox"/>	B) User stories must be used in agile approaches.
<input type="checkbox"/>	<input type="checkbox"/>	C) There are no mandatory specifications of which artifacts are to be used.
<input type="checkbox"/>	<input type="checkbox"/>	D) Use cases can be used as artifacts.

30. Which two of the following user stories are structurally correct? The example is based on a webshop. (2 answers) **A3P1004**  
**1 point**

<input type="checkbox"/>	A) As a user, I want to fill a basket so that I can purchase multiple products.
<input type="checkbox"/>	B) To purchase multiple products, I want to be able to fill a basket.
<input type="checkbox"/>	C) I want to fill a basket to purchase multiple products.
<input type="checkbox"/>	D) To purchase multiple products, as a user I want to be able to fill a basket.
<input type="checkbox"/>	E) As a user, I want to fill a basket.