Sample Exam

iSAQB[®] Certified Professional for Software Architecture – Foundation Level (CPSA-F[®])

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Explanations to the sample exam Certified Professional for Software Architecture - Foundation Level (CPSA-F®)

This examination is a sample exam, which is based on the certification exam of the Certified Professional for Software Architecture - Foundation Level (CPSA-F®) in form and scope. It serves to illustrate the real iSAQB® CPSA® examination as well as to prepare for the corresponding exam.

The sample exam consists of 39 multiple-choice questions, which can be evaluated with 1 or 2 points depending on the level of difficulty. At least 60 percent must be achieved to pass the exam. 50.0 points can be achieved in this sample examination, you would need 30.0 points to pass.

The following general rules apply: Correct answers result in plus points, incorrect answers result in a deduction of points, but only with regard to the respective question. If the wrong answer to a question leads to a negative score, this question is evaluated with a total of 0 points.

The multiple-choice guestions of the sample exam are divided into three types of guestions:

A-Questions (Single Choice, Single Correct Answer):

Select the only correct answer to a question from the list of possible answers. There is only one correct answer. You receive the specified score for selecting the correct answer. Depending on the level of difficulty, you can achieve a score of 1 or 2 points.

P-Questions (Pick-from-many, Pick Multiple):

Select the number of correct answers given in the text from the list of possible answers to a question. Select just as many answers as are required in the introductory text. You receive 1/n of the total points for each correct answer. For each incorrect cross, 1/n of the points are deducted. The score is 1 or 2 points depending on the level of difficulty.

K-Questions (Allocation Questions, Choose Category):

For a question, select the correct of the two options for each answer choice ("correct" or "incorrect" or "applicable" or "not applicable"). You will receive 1/n of the points for each correctly placed cross. Incorrectly placed crosses result in the deduction of 1/n of the points. If NO answer is selected in a line, there are neither points nor deductions. The score is 1 or 2 points depending on the level of difficulty.

For a more detailed explanation of the question types and scoring system, further information is available in the <u>CPSA-F examination guide</u>.

The processing time is 75 minutes for native speakers and 90 minutes for non-native speakers. In order to ensure that the preparation for the exam is as authentic as possible, the processing time should be adhered to and any aids (such as seminar materials, books, internet, etc.) should not be used.

The exam can subsequently be evaluated using the sample solution.

Given that the iSAQB® e.V. is indicated as source and copyright holder, the present sample exam may be used in the context of training courses, for exam preparation or it may be passed on free of charge.

However, it is explicitly prohibited to use these exam questions in a real examination.





| Que | estion | 1 A-Question: Select one option. | 1 point |
|----------|-------------------------------|--|------------|
| ID: C | Q-20-04· | 01 | _ |
| How | many d | efinitions of "software architecture" exist? | |
| | (a) | Exactly one for all kinds of systems. | |
| | (b) | One for every kind of software system (e.g. "embedded", "real-time", "de support", "web", "batch",). | cision |
| | (c) | A dozen or more different definitions. | |
| <u> </u> | oction | 2 D. Overstiens Chance the three heat connects | 1 n a int |
| | estion 2-20-04- | · | 1 point |
| ID. C | ₹ -20-0 4 - | 02 | |
| Whi | ch THRE | E of the following aspects are covered by the term "software architecture" | ? |
| | (a) | Components. | |
| | (b) | Cross cutting concepts. | |
| | (c) | (internal and external) interfaces. | |
| | (d) | Database schemata. | |
| | (e) | Hardware Sizing. | |
| _ | (0) | ria.a.ra.o o. <u>-</u> ig. | |
| | | | |
| Que | estion | 3 P-Question: Choose the four best answers. | 2 points |
| |)-17-13· | | |
| Whic | ch FOUR | of the following statements about (crosscutting) concepts are most appr | opriate? |
| | (a) | Uniform usage of concepts reduces coupling between building blocks. | |
| | (b) | The definition of appropriate concepts ensures the pattern compliance architecture. | of the |
| | (c) | Uniform exception handling is most easily achieved when architects agridevelopers upon a suitable concept prior to implementation. | ee with |
| | (d) | For each quality goal there should be an explicitly documented concept. | |
| | (e) | Concepts are a means to increase consistency. | |
| | (f) | A concept can define constraints for the implementation of many building | ng blocks. |
| | (g) | A concept might be implemented by a single building block. | |



| Ques | tion 4 | K-Question: | Select "Appropriate" or "Not appropriate" for each line. | 0 : t |
|-----------------|----------|---------------------|--|----------|
| ID: O 1 | 17-13-0 | 12 | | 2 points |
| і р. Q - | 17-13-0 | 12 | | |
| softwa | are arch | | nd seven developers are working on the documentation of mods are appropriate in order to achieve a consistent and ich are not? | the |
| Appro | priate | Not appropriate | | |
| | | □ (a) | The chief architect creates the documentation. | |
| | | □ (b) | Identical templates are used for the documentation. | |
| | | □ (c) | All parts of the documentation are automatically extracted from the source code. | |
| | | | | |
| | tion 5 | | Choose the four best options. | 1 point |
| ID: Q-1 | 17-13-0 | 13 | | |
| | FOUR o | | niques are best suited to illustrate the interaction of runtir | ne |
| | (a) | Flowcharts. | | |
| | (b) | Activity Diagrams. | | |
| | (c) | Depiction of screen | flows (sequence of user interactions). | |
| | (d) | Sequence diagram | | |
| | (e) | Linear Venn diagra | n. | |
| | (f) | Numbered list of se | equential steps. | |
| | (g) | Tabular description | of interfaces. | |
| | (h) | Class diagrams. | | |

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| Ques | tion 6 | ı | P-Question: Choose the two best options. | 1 point | | | | | | | |
|---------|---|---------------|--|----------|--|--|--|--|--|--|--|
| ID: Q- | 17-13-0 | 4 | | | | | | | | | |
| Which | THREE | of the | following principles apply to testing? | | | | | | | | |
| | (a) | In gen | eral, exhaustive testing is not possible. | | | | | | | | |
| | (b) | | n components with many known previous errors, the chances for additional errors re high. | | | | | | | | |
| | (c) Sufficient testing can show that a program is free of errors. | | | | | | | | | | |
| | (d) | Testin | g can only show the existence of errors. | | | | | | | | |
| | (e) | Functi | onal programming does not allow automated testing. | | | | | | | | |
| Ques | tion 7 | ' | K-Question: Select "True" or "False" for each line. | 2 points | | | | | | | |
| ID: Q- | 17-13-0 | 5 | | | | | | | | | |
| | of the f are fals | | ng statements regarding the design principle 'information hiding' are tru | e and | | | | | | | |
| True | False | | | | | | | | | | |
| | | (a) | Adhering to the "information hiding principle" increases flexibility for modifications. | | | | | | | | |
| | | (b) | Information hiding involves deliberately hiding information from caller consumers of the building block. | s or | | | | | | | |
| | | (c) | Information hiding makes it harder to distinguish between interface arimplementation. | nd | | | | | | | |
| | | (d) | Information hiding is a derivative of the approach of incremental refine along the control flow. | ement | | | | | | | |
| | | (e) | In object-oriented development, information hiding is primarily relevant class level. | it at | | | | | | | |
| | tion 8 | | P-Question: Choose the two best options. | 1 point | | | | | | | |
| ID: Q-2 | 20-04-0 | 3 | | | | | | | | | |
| What | are the | FWO mo | ost important goals of software architecture? | | | | | | | | |
| | (a) | Improv | ve accuracy of patterns in structure and implementation. | | | | | | | | |
| | (b) | Achiev | ve quality requirements in a comprehensible way. | | | | | | | | |
| | (c) | Enable | e cost-effective integration and acceptance tests of the system. | | | | | | | | |
| | (d) | | Enable a basic understanding of structures and concepts for the development team and other stakeholders. | | | | | | | | |



| Ques | stion 9 |) | K-Question: Select "True" or "False" for each line. | 2 points | | | | | |
|---|--|-------------------|---|----------|--|--|--|--|--|
| ID: Q-2 | 20-04-1 | 2 | | | | | | | |
| | | | osition of a software architect for a large business application in the ba . Which of the following statements is true and which is false? | anking | | | | | |
| True | False | | | | | | | | |
| | | (a) | Your architecture should be structured in a way that allows changes corresponding business processes without requiring extensive restruction of the software architecture. | | | | | | |
| □ □ (b) Required product qualities should drive your architectural decisions. | | | | | | | | | |
| | ☐ ☐ (c) To be independent of the infrastructure you should decide your key software architecture structure before infrastructure architects select the hardware or infrastructure for a product. | | | | | | | | |
| | | (d) | Your software architecture should foresee changes in technology (i.e UI-frameworks, different deployment strategies, new peripheral device only require local adaptation when it happens. | | | | | | |
| Ques | tion 1 | 0 | P-Question: Choose the three most important responsibilities. | 2 points | | | | | |
| ID: Q-2 | 20-04-0 |)6 | | | | | | | |
| | are your ements' | | E most important responsibilities as a software architect with respect | to | | | | | |
| | (a) | Help tl tested | he business people to express quality requirements in a way that can l. | be | | | | | |
| | ☐ (b) Help to identify new business opportunities based on your technology know-how. | | | | | | | | |
| | (c) | Reject | business requirements that contain technical risks. | | | | | | |
| | (d) | | te business requirements in a terminology that can be understood by yopment team. | our/ | | | | | |
| | · | | | | | | | | |



| Ques | stion 1 | 1 | P-Question: Choose the three most important action items. | 1 point |
|--------|---------|--------|--|---------------|
| ID: Q- | 20-04-0 | 07 | | |
| | ng requ | | e as an architect for keeping a legacy system up and running accordints of your business. What are the THREE most important action iten | |
| | (a) | Nego | otiating the maintenance budget for your team. | |
| | (b) | Assu | ring up-to-date documentation of the deployed system. | |
| | (c) | Analy | zing the impact of new requirements on the current system. | |
| | (d) | Enco | uraging the team members to learn new programming languages. | |
| | (e) | | esting technology updates in addition to the business requirements agement. | to your |
| | stion 1 | | K-Question: Select "True" or "False" for each line. | 2 points |
| You a | | espons | sible architect for one product in a product family. The product family ily architect. Select which of the following statements is true or false | |
| True | False | | | |
| | | (a) | You have to accept constraints that apply to the whole product far your product. | mily also for |
| | | (b) | Since parts of this product family are separately sellable products product is not bound to the constraints of the suite. | , your |
| | | (c) | You should have regular meetings with your fellow product archite family architect to negotiate common quality requirements and co | |
| | | (d) | You can negotiate deviations from quality requirements that have defined for the overall suite with the suite architect. | been |
| | | | | |



| | stion 1 | | K-Question: Select "True" or "False" for each line. | 1 point | | | | |
|---|--|----------|---|----------|--|--|--|--|
| ID: Q- | 20-04-0 |)9 | | | | | | |
| Decid | e for ea | ch of th | ne following statements whether it is true or false. | | | | | |
| True | False | | | | | | | |
| | | (a) | Architectural cornerstones might be decided during iterative development features. | nent of | | | | |
| | | (b) | The total effort spent on architectural work is much higher in iterative projects compared to waterfall projects. | | | | | |
| | ☐ ☐ (c) Agile projects do not need architecture documents since the development team uses daily standup-meetings to communicate decisions. | | | | | | | |
| ☐ ☐ (d) If your systems consist of a set of microservices there is no need for a central architecture document since each service is free to choose its technologies. | | | | | | | | |
| Oue | tion 1 | 1 | V. Overtion, Colort "True" or "False" for each line | O mainta | | | | |
| | stion 1 20-04-1 | | K-Question: Select "True" or "False" for each line. | 2 points | | | | |
| Discus | | h of the | following statements regarding project goals and architectural goals is | s true | | | | |
| True | False | | | | | | | |
| | | (a) | Project Goals can include functional requirements as well as quality requirements. | | | | | |
| | | (b) | Architectural goals are a derived from the quality requirements for the or product. | system | | | | |
| | | (c) | Business stakeholders should concentrate on business goals and not interfere with architectural goals. | | | | | |
| | | | | | | | | |

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| Que | estion | 15 <i>P-Question: Choose the two best-fitting answers.</i> | 1 point |
|-------|-----------------------|--|-----------------------|
| ID: C |)-20-04· | -11 | |
| | t does t vers. | he rule "explicit, not implicit" mean for architecture work? Choose the TWC |) best-fitting |
| | (a) | Architects should avoid recursive structures and replace them by explic | it loops. |
| | (b) | Architects should make the assumptions leading to decisions explicit. | |
| | (c) | Architects should explicitly insist on natural language explanations (i.e. for each building block. | comments) |
| | (d) | Architects should explicitly insist on written or at least oral justifications development effort estimates from their team. | s for |
| | (e) | Architects should make prerequisites for their decisions explicit. | |
| | | | |
| Que | estion | P-Question: Choose the three most appropriate answers. | 1 point |
| ID: C |)-20-04· | -19 | |
| Iden | tify the ⁻ | THREE most appropriate examples for typical categories of software syste | ems. |
| | (a) | Batch system. | |
| | (b) | Interactive online system. | |
| | (c) | Linnés system. | |
| | (d) | Embedded real-time system. | |
| | (e) | Integration test system. | |
| | | | |
| | estion | · · · · · · · · · · · · · · · · · · · | nt |
| ID: C |)-20-04· | -32 | |
| | | any approaches that lead to a software architecture. Which of the followin t often found in practice? | g are the |
| | (a) | User-Interface Driven Design. | |
| | (b) | Domain Driven Design. | |
| | (c) | View-based Architecture Development. | |
| | (d) | Bottom-up Design. | |
| П | (e) | Maiority Voting. | |



| Que | stion | 18 P-Quest | ion: C | hoose the three most often used views. | 1 point | | | |
|-------|--------------------|---|--|---|-------------------|--|--|--|
| ID: Q | -20-04- | 38 | | | | | | |
| | | ecture developme e THREE most oft | | ethods suggest a view-based approach. Which of t ed? | he following | | | |
| | (a) | Physical databa | ase vi | ew. | | | | |
| | (b) | Context view. | | | | | | |
| | (c) | Building Block/ | Comp | ponent view. | | | | |
| | (d) | Test-driven view | ٧. | | | | | |
| | (e) | Configuration v | iew. | | | | | |
| | (f) | Runtime view. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Que | stion | 19 K-Quest | ion: S | elect "Contained" or "Avoided" for each line. | 1 point | | | |
| ID: Q | -20-04- | 22 | | | | | | |
| | | - | • | r software architecture. Which information should hich information should be avoided? | be contained | | | |
| Cont | ained | Avoided | | | | | | |
| | | | (a) | Interfaces. | | | | |
| | | | (b) | Responsibility. | | | | |
| | | | (c) | Internal structure. | | | | |
| | | | (d) | Hints for the implementation. | | | | |
| | | | | | | | | |
| | stion 2 -20-04- | | ion: C | hoose the two most appropriate answers. | 1 point | | | |
| Whic | h prerec | | e fulfi | illed before developing a software architecture? Pi | ck the TWO | | | |
| | (a) | The requiremer | nts sp | ecification for the system is complete, detailed an | d consistent. | | | |
| | (b) | The most impo | rtant | qualities for the system are known. | | | | |
| | (c) | Organizational | const | raints are known. | | | | |
| | (d) | The programmi | ing la | nguage has been selected. | | | | |
| | (e) | Hardware for th | ardware for the development team is available. | | | | | |



| Que | 1 P-Question: Choose the three most appropriate answers. | | | | | | | | |
|------------------|---|---|---------|--|--|--|--|--|--|
| ID: Q- | 20-04- | 18 | | | | | | | |
| | | s can influence the design of a software architecture? Pick the THREE most nswers. | | | | | | | |
| | (a) | Political. | | | | | | | |
| | (b) | Organizational. | | | | | | | |
| □ (c) Technical. | | | | | | | | | |
| | (d) | Virtual. | | | | | | | |
| | | | | | | | | | |
| | stion 2 | | 1 point | | | | | | |
| ID. Q | 20-04-2 | | | | | | | | |
| Which | n of the | following qualities can most likely be improved by using a layered architecture | e? | | | | | | |
| | (a) | Runtime efficiency (performance). | | | | | | | |
| | (b) | Flexibility in modifying or changing the system. | | | | | | | |
| | (c) | Flexibility at runtime (configurability). | | | | | | | |
| | (d) | Non-repudiability. | | | | | | | |
| | | | | | | | | | |
| Que | stion 2 | 23 A-Question: Select one answer. | 1 point | | | | | | |
| ID: Q- | 20-04-3 | 33 | | | | | | | |
| For w | hich kin | d of system can the Blackboard Architecture pattern be used? | | | | | | | |
| | (a) | Hard real-time systems. | | | | | | | |
| | (b) | Rule-based systems. | | | | | | | |
| | (c) | Linnés systems. | | | | | | | |
| | (d) Safety critical systems. | | | | | | | | |



| Que | stion 2 | 24 A-0 | Question: S | Select one answer. | 1 point |
|------------|-----------|-----------------------|-------------|---|----------|
| ID: Q | -20-04-2 | 20 | | | |
| Whic | h goals | are you tryir | ng to achie | eve with the dependency inversion principle? | |
| | (a) | Big buildir | ng blocks | shall not depend on small building blocks. | |
| | (b) | Compone | nts shall b | e able to create dependent components more easily. | |
| | (c) | Building b | locks sha | ll only depend on each other via abstractions. | |
| | | | | | |
| Que | stion 2 | 25 <i>K</i> -0 | Question: S | Select "Tight coupling" or "Loose coupling" for each line. | |
| | | | | | 1 point |
| ID: Q | -20-04- | 21 | | | |
| What | t are cha | racteristics | of tight (h | nigh) or loose (low) coupling? | |
| Tight coup | | Loose coupling | | | |
| | | | (a) | Building blocks directly call dependent building blocks i.e. without detours via interfaces or abstractions. | , |
| | | | (b) | Building blocks use common data types. | |
| | | | (c) | Building blocks use a common database. | |
| | | | (d) | When designing building blocks, you have consistently applied the dependency inversion principle. | , |
| | | | | | |
| Que | stion 2 | 26 <i>P-</i> 0 | Question: (| Choose the two best answers. | 2 points |
| ID: Q | -20-04- | 14 | | | |
| word | | could happe | | principle "Don't repeat yourself" (DRY) are correct? (In ot s of the source code or configuration do exist in multiple | |
| | (a) | DRY reduc | es securi | ty. | |
| | (b) | Strict adhe | erence to | DRY could lead to higher coupling. | |
| | (c) | The comp | | the system that contain redundant code can be improve ch other. | d |
| | (d) | Adherence | e to DRY le | eads to a reduction of attack vectors in IT security. | |
| | (e) | Applyina t | he Laver r | patterns allows a consistent application of the DRY princi | ple. |



| Question 27 | | | K-Question: Select "True" or "False" for each line. | 2 points | | | | |
|---|---------|----------|---|----------|--|--|--|--|
| ID: Q- | 20-04-1 | 15 | | | | | | |
| | | | ite aspects of your software architecture verbally and/or in writing. Howate? Decide for each of the following statements whether it is true or f | | | | | |
| True | False | | | | | | | |
| | | (a) | Verbal communication should supplement written documentation. | | | | | |
| | | (b) | Feedback to architecture decisions should be done in writing to ensutraceability. | ire | | | | |
| \square \square (c) Written documentation should always precede oral communication. | | | | | | | | |
| □ □ (d) | | | Architects should pick one variant (oral or written) and stick to this choice during the whole development. | | | | | |
| | | | | | | | | |
| | stion 2 | | K-Question: Select "True" or "False" for each line. | 2 points | | | | |
| ID: Q- | 20-04-3 | 37 | | | | | | |
| Which false? | | followir | ng statements about notations for architectural views is true and whicl | n is | | | | |
| True | False | | | | | | | |
| | | (a) | Business Process Model & Notation (BPMN) should only be used by Analysts and not for architecture documentation. | Business | | | | |
| | | (b) | UML deployment models are the only way to document the mapping software components to infrastructure. | of | | | | |
| | | (c) | UML Package Diagrams can be used to capture the building-block vio | ew of | | | | |
| | | | | | | | | |



| 0110 | stion 2 | 29 P-Question: Choose the two best answers. | 1 noint |
|-------|-----------|--|---------|
| | -20-04- | | 1 point |
| | | | |
| Whic | h archite | ectural views do have practical application for developing software architecture | es? |
| | (a) | Pattern View. | |
| | (b) | Observer View. | |
| | (c) | Building-Block (or Component) View. | |
| | (d) | Deployment View. | |
| | | | |
| | | | |
| Que | stion 3 | P-Question: Choose the two most appropriate answers. | 1 point |
| ID: Q | -20-04- | 23 | |
| | | context view are a business context and a technical context. Pick the TWO most answers that apply to the technical context. | t |
| | (a) | The technical context contains the physical channels between your system are environment. | nd its |
| | (b) | The technical context contains all the infrastructure on which the components your system are deployed. | s of |
| | (c) | The technical context should include hardware pricing or pricing of cloud servused as infrastructure for your architecture. | /ices |
| | (d) | The technical context contains information about the chosen programming la as well as all frameworks used to implement your software architecture. | inguage |
| | (e) | The technical context might contain different elements than the business con | ıtext. |

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Most recent version: https://github.com/isaqb-org/examination-foundation



| Ques | stion 3 | 31 | P-Question: Choose the two best reasons. | 1 point | | | | |
|--------|----------------------|---|---|------------|--|--|--|--|
| ID: Q- | 20-04-2 | 24 | | | | | | |
| | | | ure documentation could contain descriptions of cross-cutting concernons why documentation of cross-cutting concerns is useful. | s. Pick | | | | |
| | (a) | | Cross-cutting concepts should focus on the domain and be free of technical information. | | | | | |
| | (b) | | Aspects or concepts that are used in multiple parts of your software architecture should be described in a non-redundant way. | | | | | |
| | (c) | | Cross-cutting concepts can be reused in more products within the same organization. | | | | | |
| | (d) | Cross-cutting concepts should be implemented by specialists. Therefore, separate documentation is useful. | | | | | | |
| Oues | stion 3 | 32 | K-Question: Select "True" or "False" for each line. | 1 point | | | | |
| • | 20-04-2 | | R Question. Select True of Tuise for each line. | 1 point | | | | |
| | are guic is false | | s for good interface design? Check which of the following statements is | s true and | | | | |
| True | False | | | | | | | |
| | | (a) | Use of interfaces should be easy to learn. | | | | | |
| | | (b) | The client code should be easy to understand. | | | | | |
| | | (c) | An interface should be defined by the provider of the appropriate se | rvice. | | | | |
| | | (d) | Interfaces specifications should contain functional and non-function aspects. | nal | | | | |



| Question 33 | | | K-Question: Select "True" or "False" for each line. 1 point | | | | | |
|--|---------|----------------|--|---|---------|--|--|--|
| ID: Q-20-04-26 | | | | | | | | |
| One definition says: "Software architecture is the sum of all the decisions you have taken during development. Check which of the following statements about architectural/design decision is true and which is false. | | | | | | | | |
| True | False | | | | | | | |
| | | (a) | Architectural decisions can implicitly be contained in the structure of the building block/component view. | | | | | |
| | | (b) | Software architects should justify all design decision in writing. | | | | | |
| | | (c) | Architectural decisions can have interdependencies between each other. | | | | | |
| | | (d) | Tradeoffs between conflicting quality requirements should be explicit decisions. | | | | | |
| | stion 3 | | K-Question: S | Select "Good reason" or "No good reason" for each line. | 1 point | | | |
| ID: Q- | 20-04-3 | 31 | | | | | | |
| | | | ng statements which is no go | is a good reason for maintaining (adequate) architecture od reason? | 9 | | | |
| | | No go reaso | | | | | | |
| | | | (a) | To enable onboarding of new developers. | | | | |
| | | | (b) | To conform to legal constraints. | | | | |
| | | | (c) | To support the work of distributed teams. | | | | |
| | | | (d) | To assist in future enhancements of the product. | | | | |
| Question 35 K | | | K-Question: S | Select "Conflicting" or "Not conflicting" for each line. | 1 point | | | |
| ID. Q- | 20-04-3 | 5 U | | | | | | |
| Which | of the | followi | ng pairs of qua | alities are usually in conflict to each other, and which are | not? | | | |
| Confli | cting | Not c | onflicting | | | | | |
| | | | (a) | Understandability – Readability. | | | | |
| | | | (b) | Usability - Security. | | | | |
| | | | (c) | Runtime configurability – Robustness. | | | | |
| | | | (d) | Security – Legal Compliance. | | | | |



| - | tion 3 2 0-04-2 | • | | | | | |
|---------|---------------------------|--|--|--|--|--|--|
| | ements | vides generic quality characteristics for software systems. How can quality concerning these characteristics be made more concrete? Pick the TWO best | | | | | |
| | (a) | By developing UI prototypes. | | | | | |
| | (b) | By defining explicit interfaces. | | | | | |
| | (c) | By discussing or writing scenarios. | | | | | |
| | (d) | By creating automatic tests. | | | | | |
| | (e) | By creating a quality tree. | | | | | |
| | tion 3 | · | | | | | |
| ID: Q-2 | 20-04-2 | 8 | | | | | |
| | | ollowing things does not help in qualitative analysis of your software architecture? vrong answer. | | | | | |
| | (a) | Metrics. | | | | | |
| | (b) | Architecture models. | | | | | |
| | (c) | Quality scenarios. | | | | | |
| | (d) | Project status reports. | | | | | |
| | (e) | Log files. | | | | | |
| | tion 3 | <u> </u> | | | | | |
| You try | to ana | lyze your architecture quantitatively. Which are the TWO most appropriate indicators ral problem areas? | | | | | |
| | (a) | High coupling of components. | | | | | |
| | (b) | Inappropriate names of public methods. | | | | | |
| | (c) | Missing comments. | | | | | |
| | (d) | Error clusters. | | | | | |
| | (e) | Number of test cases per component. | | | | | |





| Qu | estion 3 | P-Question: Choose two answers. | 1 point |
|-----|-----------|--|---------------------|
| ID: | Q-20-04-3 | 36 | |
| | | following alternative cannot be measured in your software architecture? I are least likely. | Pick the TWO |
| | (a) | Size of building blocks (e.g. LOC). | |
| | (b) | Change rate of the source code of components. | |
| | (c) | Cohesion of the architectural components. | |
| | (d) | Security level of a component. | |
| | (e) | Number of the developers that contributed to a specific component. | |