



**Free Questions for CPSA-FL by certsdeals**

**Shared by Tyler on 12-12-2023**

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## Question 1

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**Question Type:** MultipleChoice

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You want to demonstrate to colleagues that certain building blocks are suitable for the implementation of a use-case scenario.

Which of the following UML diagrams is best suited for this?

**Options:**

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**A-** Use-case diagram

**B-** Sequence diagram

**C-** Activity diagram

**D-** Class diagram

**Answer:**

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A

## Question 2

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**Question Type:** MultipleChoice

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Which of the following statements are covered by the term 'coupling'? (Choose two.)

**Options:**

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- A-** A building block uses an interface of another building block.
- B-** Two building blocks offer operations with the same name.
- C-** A building block only contains operations that belong together logically.
- D-** A building block uses internal data structures of another building block.

**Answer:**

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A, C

## Question 3

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**Question Type: MultipleChoice**

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Which of the following statements are correct? (Choose two.)

**Options:**

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- A- The push operation usually places a new element onto a stack.
- B- A stack acts exactly like a queue.
- C- A stack is organized according to the FIFO principle.
- D- A stack usually only provides access to one element at a time.

**Answer:**

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A, D

## Question 4

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**Question Type: MultipleChoice**

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Which of the following statements apply to design patterns? (Choose two.)

**Options:**

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- A- Design patterns are not invented but discovered.

- B-** Design patterns should always be described alongside the problem they are supposed to solve.
- C-** Design patterns are formally defined and can thus be proven to be correct.
- D-** The number of design patterns used is proportional to the software architecture's quality.

**Answer:**

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A, B

## Question 5

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**Question Type:** MultipleChoice

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In a customer project the architecture shall be based on components. The requirements have not been fully determined yet.

Taking this constraint into account, which three properties of the components developed by you will you pay particular attention to?  
(Choose three.)

**Options:**

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- A-** meaningful component names
- B-** weak coupling

- C- strong cohesion
- D- open for extension
- E- small component size

**Answer:**

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C, D, E

## Question 6

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**Question Type:** MultipleChoice

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Which two of the following requirements are examples of quality requirements? (Choose two.)

**Options:**

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- A- Up to 40,000 requests per day
- B- User should be able to select the sort order freely.
- C- Spelling is corrected automatically.
- D- Failure rate is less than 0.1%.

**Answer:**

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B, C

## Question 7

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**Question Type:** MultipleChoice

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Which four of the following items can be building blocks of a software architecture? (Choose four.)

**Options:**

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**A-** an algorithm

**B-** a component

**C-** a test harness

**D-** a class

**E-** a processor

**F-** a method/procedure/function/operation

**G-** a local variable

**H-** a package

**Answer:**

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A, B, D, H

## Question 8

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**Question Type: MultipleChoice**

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Which of the following statements regarding iterative and incremental design are correct? Please name the three statements that fit the best. (Choose three.)

**Options:**

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- A- Iterations help to deal with uncertainties.
- B- The iterative approach helps to detect design problems at an earlier stage.
- C- If the incremental approach is used, risks are detected at a later stage.
- D- Iterative design leads to project delays.
- E- If iterative design is used; the customer will be less involved.
- F- If incremental design is used; key functionality is considered as early as possible.



**Answer:**

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A, B, F

## Question 9

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**Question Type:** MultipleChoice

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For which quality characteristics is the software architect responsible?

Please name the two characteristics that best match the role of the software architect. (Choose two.)

**Options:**

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- A- The performance of the software
- B- The technical quality of the software implementation
- C- The suitability of the software design for its purpose
- D- The software is free of errors

**Answer:**

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A, B

## Question 10

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**Question Type:** MultipleChoice

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Which two of the following statements about quality characteristics are most accurate? (Choose two.)

### Options:

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- A- Flexibility reduces testability
- B- Increased flexibility improves robustness
- C- Simplicity increases comprehensibility
- D- Increased efficiency results in reduced performance

### Answer:

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B, C

## Question 11

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**Question Type:** MultipleChoice

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Which of the following techniques are best suited to illustrate the interaction of runtime building blocks? Select the four most suitable techniques.

**Options:**

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- A- Activity diagrams
- B- Sequence diagrams
- C- State diagram
- D- Flowcharts
- E- Class diagrams
- F- Tabular description of interfaces
- G- Depiction of screen flows (sequence of user interactions)
- H- Numbered lists of sequential steps

**Answer:**

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A, B, C, E

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