

Consider the following performance scenario:

1

"During the normal period, all periods except the enrolment period, a student accessing the Fénix system should finish a write transaction in less than 2 seconds."



Which of the following options is true?



The environment is specified.

B

The stimulus is stochastic.

C

The response measure is jitter.

D

The source of the stimulus is not specified.

2

Consider the design of YouTube where *Transcoding Server* is one of the software elements. What is the initial reason that justifies this software element?



A

They are inferred from a scalability quality.

B

They are inferred from an availability quality.

C

They are inferred from a performance quality.



They are inferred from the system functionalities.

3

Twitter process millions of tweets per second. Considering that the processing of each tweet can be done independently of the other tweets, which performance tactic should be applied?



A

Maintain multiple copies of data.



Maintain multiple copies of computation.

C

Increase resources.

D

Reduce computational overhead.

4

Consider a scenario for performance where the arrival of events is stochastic with a distribution where there are peeks of events but the arrival of events over a long period is uniform. What is the best tactic to apply in this situation? >

A

Prioritize events.



Limit event response.

C

Bound execution time.

D

Manage work requests.

5

Consider the design of YouTube where *Metadata Cache* is one of the software elements. What is the initial reason that justifies this software element?

A

They are inferred from a scalability quality.



They are inferred from a performance quality for the watch video functionality.

C

They are inferred from a performance quality for the upload video functionality.

D

They are inferred from an availability quality.