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Question 1

If a service consumer program needs to get data from a service that is not available, it can poll the service by periodically issuing a request message. This type of interaction can be inefficient because it can lead to unnecessary message transmissions. Which of the following statements describes a solution to this problem?

Options:

A- By applying the Messaging Metadata pattern, the service consumer can write a request identifier in the message header. Service agents then intercept the request messages and do not forward those that contain a previously detected identifier. This practice eliminates the delivery of the duplicate messages to the service.

B- The Event-Driven Messaging pattern can be applied to establish a messaging framework in which service consumers are automatically notified of relevant runtime service events.

C- By applying the Atomic Service Transaction pattern, a service can be designed to invoke an alternative exception handling process when it is unavailable to receive a given message.

D- None of the these statements describe solutions that directly solve this problem.

Answer:

B

Question 2

The messaging framework established by the application of the Event-Driven Messaging pattern positions a(n) _____ as being responsible for the broadcast of event notification messages.

Options:

A- event management program

B- synchronous queue

C- event-driven Web service

D- database

Answer:

A

Question 3

Based on the publisher and subscriber roles established by the application of the Event-Driven Messaging pattern, which of the following statements are true?

Options:

A- a service, acting as a publisher, issues event notification messages to an event management program that is responsible for broadcasting the messages

B- a service consumer, acting as a subscriber, can selectively subscribe to specific events

C- an intermediate event management program enters the role of subscriber when accepting event subscriptions

D- upon receiving a message associated with an event that a service consumer subscribed to, the service consumer enters the publisher role

Answer:

A, B

Question 4

Question Type: **MultipleChoice**

In the message exchange framework established by the application of the Reliable Messaging pattern, what roles are typically fulfilled by service agents?

Options:

A- service agents can process positive acknowledgements

B- service agents can process negative acknowledgements

C- service agents can load balance messages

D- service agents can route messages based on their content

Answer:

A, B

Question 5

Question Type: MultipleChoice

Assuming the Reliable Messaging pattern is successfully applied, which of the following statements is correct?

Options:

A- A service agent intercepts and stores a message from the service consumer. The service agent then returns an acknowledgement back to the service consumer. Next, the service agent forwards the message to the service and when it receives an acknowledgement back from the service, it deletes the message.

B- A service agent intercepts and stores a message from the service consumer. The service agent then forwards the message to the service. Next, the service agent receives an acknowledgement from the service, which it returns to the service consumer. Finally, the service agent deletes the message and related acknowledgements.

C- The service consumer stores the message and forwards it to a service agent, which issues an acknowledgement back to the service consumer. The service agent then forwards the message to the service and when it receives an acknowledgement from the service, the service agent informs the service consumer so that it can delete the message and the acknowledgement.

D- None of the above.

Answer:

A

Question 6

Question Type: **MultipleChoice**

The Reliable Messaging pattern requires:

Options:

A- the use of standardized service contracts in order to enable message atomic transaction details to be carried in the message header

B- a framework for temporarily persisting messages and issuing acknowledgements

C- the application of the Official Endpoint pattern in order to enable acknowledgement features

D- a framework capable of bridging disparate messaging protocols in order to exchange schemas between compatible services

Answer:

B

Question 7

Question Type: **MultipleChoice**

The queue established by applying the Asynchronous Queuing pattern enables service consumer and service to revert to a stateless condition before a data exchange has fully completed.

Options:

A- True

B- False

Answer:

A

Question 8

Question Type: MultipleChoice

When applying the Asynchronous Queuing pattern you aim to establish an environment in which:

Options:

A- an intermediate buffer exists between a service and its service consumer

B- temporary message storage is provided in case either the service or service consumer are unavailable

C- periodic re-transmission of a message is supported until it is successfully delivered

D- enforcement of consistent, uninterrupted, synchronous communication between service and service consumer are guaranteed

Answer:

A, B, C

Question 9

Question Type: **MultipleChoice**

The application of the Intermediate Routing pattern can result in multiple service agents intercepting a message before it arrives at its destination.

Options:

A- True

B- False

Answer:

A

Question 10

The use of the Intermediate Routing pattern typically results in:

Options:

A- common routing logic being removed from service logic and placed into service agents

B- common routing logic being removed from service agents and placed into a database

C- common routing logic being physically centralized into a single service

D- common routing logic being physically centralized into a single service composition

Answer:

A