

**SOA S90-08A**

# **Advanced SOA Design & Architecture**

**Version: 4.0**

**QUESTION NO: 1**

When applying the Messaging Metadata pattern, it is customary to place business document data in the message header and supplementary messaging metadata in the message body.

- A. True
- B. False

**Answer: B**

**Explanation:**

**QUESTION NO: 2**

The Messaging Metadata pattern requires a messaging framework that supports the processing of messages with headers or properties.

- A. True
- B. False

**Answer: A**

**Explanation:**

**QUESTION NO: 3**

Which of the following statements is false?

- A. Widespread use of the Messaging Metadata pattern can be seen in the emergence of many WS-\* extensions that define industry standard SOAP header blocks that carry metadata.
- B. Messaging frameworks and technologies need to provide support for the reading and writing of message headers or properties in order to fully support the application of the Messaging Metadata pattern.
- C. The Messaging Metadata pattern is not applicable to situations where the message sender and receiver need to participate in stateful or conversational message exchanges.
- D. The Messaging Metadata pattern can support the application of patterns such as Intermediate Routing by supplementing messages with activity-specific metadata.

**Answer: C**

**Explanation:**

**QUESTION NO: 4**

A service agent has a technical contract that allows it to be explicitly invoked by service consumer

programs.

- A. True
- B. False

**Answer: B**

**Explanation:**

#### **QUESTION NO: 5**

Which of the following functions would not be suitable for a typical service agent?

- A. event logging
- B. message routing
- C. complex Web service composition
- D. error logging

**Answer: C**

**Explanation:**

#### **QUESTION NO: 6**

The use of service agents will affect the design of service compositions as follows:

- A. it will tend to increase the number of required services
- B. it will tend to decrease the number of required services
- C. it will tend to increase the number of required service compositions
- D. it will tend to decrease the number of required service compositions

**Answer: B**

**Explanation:**

#### **QUESTION NO: 7**

Which of the following statements is true?

- A. The overuse of service agents can lead to dependencies on proprietary vendor platforms.
- B. The use of service agents is limited to the service architecture.
- C. Service agents are common in orchestration environments but not within enterprise service bus environments.
- D. None of these statements are true.

**Answer: A**

**Explanation:**

**QUESTION NO: 8**

Governance can become an issue with service agents because:

- A. You will need to determine who will own and maintain the service agents.
- B. Changes to a single service agent can impact multiple services throughout a service inventory.
- C. Service agents need to be versioned, just like services.
- D. All of the above.

**Answer: D**

**Explanation:**

**QUESTION NO: 9**

Which of the following patterns may also require the application of the Service Agent pattern?

- A. Reliable Messaging
- B. Asynchronous Queuing
- C. Intermediate Routing
- D. Policy Centralization

**Answer: A,B,C,D**

**Explanation:**

**QUESTION NO: 10**

Which statement regarding intermediate routing is true?

- A. The application of the Intermediate Routing pattern is suitable for handling message routing requirements that are dynamic in nature and difficult to anticipate in advance.
- B. The application of the Intermediate Routing pattern is suitable for handling pre-determined message paths with fixed routing requirements that cannot be changed at runtime.
- C. The application of the Intermediate Routing pattern tends to improve runtime performance when compared to an approach whereby routing logic is embedded within individual services.
- D. None of these statements are true.

**Answer: A**

**Explanation:**

**QUESTION NO: 11**

The application of the Intermediate Routing pattern can address which of the following needs?

- A.** The need to increase the autonomy of a service due to its reliance on a shared data source.
- B.** The need to perform content-based routing based upon metadata found in the message header.
- C.** The need for load-balanced access to a redundantly deployed service.
- C.** The need to provide pre-defined compensating logic for when an atomic service transaction fails.

**Answer: B,C**

**Explanation:**

**QUESTION NO: 12**

Load balancing is commonly associated with which pattern?

- A.** Atomic Service Transaction
- B.** Intermediate Routing
- C.** Service Broker
- D.** Decoupled Contract

**Answer: B**

**Explanation:**

**QUESTION NO: 13**

The use of the Intermediate Routing pattern typically results in:

- 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**

**Explanation:**

**QUESTION NO: 14**

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

- A. True
- B. False

**Answer: A**

**Explanation:**

#### **QUESTION NO: 15**

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

- 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**

**Explanation:**

#### **QUESTION NO: 16**

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.

- A. True
- B. False

**Answer: A**

**Explanation:**

#### **QUESTION NO: 17**

The Reliable Messaging pattern requires:

- 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