

# Quiz 9: Message-Oriented Middleware

**Due** Oct 31, 2016 at 11:59pm **Points** 100 **Questions** 4

**Available** Oct 26, 2016 at 8am - Oct 31, 2016 at 11:59pm 6 days

**Time Limit** 60 Minutes

This quiz was locked Oct 31, 2016 at 11:59pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	44 minutes	88.75 out of 100

Score for this quiz: **88.75** out of 100

Submitted Oct 31, 2016 at 6:35pm

This attempt took 44 minutes.

### Question 1

25 / 25 pts

What are the message types supported by JMS?

1.
2.
3.
4.
5.
6.

Answer 1:

Correct!

TextMessage

Answer 2:

Correct!

MapMessage

Answer 3:

Correct!

BytesMessage

**Answer 4:**

Correct!

StreamMessage

**Answer 5:**

Correct!

ObjectMessage

**Answer 6:**

Correct!

Message

## Question 2

25 / 25 pts

Match the JMS headers below with the purpose.

Correct!

**Whether message is sent point-to-point (unicast) or broadcast.**

JMSDeliveryMode ▼

Correct!

**Identifier assigned to a message by the MOM when it is sent.**

JMSMessageID ▼

Correct!

**The input queue where the message should be deposited.**

JMSDestination ▼

Correct!

**Identifies the request message for which a message is a response.**

JMSCorrelationID ▼

Correct!

**The form of payload of the message.**

JMSType ▼

Correct!

**Based on the acknowledge mode set by the application, the message may have been delivered more than once (at-least-once semantics).**

JMSRedelivered ▼

## Question 3

20 / 25 pts

Provide the annotation for a JMS message-driven bean that specifies that it should be activated for messages received on the JMS queue with JNDI name "jms/Alerts", and only for messages with property AlertType set to 'Containment' and message priority less than 5.

Your Answer:

```
@MessageDriven(mappedName= "jms/Alerts",
activationConfig = {
    @ActivationConfigProperty(
        propertyName = "Containment",
        propertyValue = "priority < 5"
    )
})
```

propertyName = "messageSelector", propertyValue = "AlertType='Containment'  
AND JMSPriority < 5"

#### Question 4

18.75 / 25 pts

Match the messaging design pattern with its purpose.

Correct!

**Invoke a procedure in another application.**

Command Message ▼

Correct!

**Transfer data between processes.**

Data Message ▼

Correct!

**Notification that something has happened.**

Event Message ▼

Correct!

**Record messages that could not be processed due to format errors.**

Invalid Message Channel ▼

Correct!

**Record messages that could not be delivered by their deadline.**

Dead Letter Channel ▼

You Answered

**Receiver of a message repeatedly tests for arrival of a message.**

Correct Answer

Polling Consumer

Correct!

**Receiver of a message registers a listener that notifies it of receipt of a message.**

You Answered

**The next message received in a queue is nondeterministically assigned to the first consumer that receives it.**

Correct Answer

Competing Consumers

You Answered

**A single message receiver mediates which among a pool of message consumers receives the next message on a queue.**

Correct Answer

Message Dispatcher

Correct!

**Encapsulate queuing logic within an application.**

Correct!

**Wrap a legacy system using message queues for communication with other applications.**

Correct!

**Break up a compound message into smaller component messages.**

Correct!

**Stores component messages that are received, until a compound message can be reconstructed from the received component messages.**

Correct!

**Direct messages on a single input channel to one of several output**

channels based on attributes associated with the messages.

Correct!

Break a compound message into smaller components, route those components to appropriate processing points, and reassemble the results as a new compound message.

Composed Message Processor ▼

You Answered

Duplicate an input message on several output channels.

Competing Consumers ▼

Correct Answer

Publish-subscribe

Correct!

Store messages in a database, for reference and retrieval.

Message Store ▼

You Answered

Broadcast request message to several destinations, and collect the responses.

Publish-subscribe ▼

Correct Answer

Scatter-Gather

Correct!

Perform sequential routing on a message, ensuring in advance that the prerequisites for each stage of processing are satisfied.

Routing Slip ▼

Correct!

Perform sequential routing on a message, making decisions at run-time on the order in which the processing steps on the message should be performed.

Process Manager ▼

Quiz Score: **88.75** out of 100