

# Enterprise Frameworks Java Messaging Service

## JMS

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# Table of Contents

Quiz Permalink: <http://www.quizover.com/question/messaging>

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## 1. Java Messaging Service

- Synchronous and Asynchronous Messaging
- Basics
- Point to Point and Publish/Subscribe Messagings

## 4. Chapter: Synchronous and Asynchronous Messaging

### 1. Synchronous and Asynchronous Messaging Questions

#### 4.1.1. Which of the following applications are appropriate to communicate ...

Author: JavaChamp Team

Which of the following applications are appropriate to communicate asynchronously?

Please choose all the answers that apply:

- Courses registration in a university, where courses availability must be checked by another application before registering the course
- Email services (sending and receiving emails)
- A client sends a document (such as an XML document) to a travel agency service requesting arrangements for a particular trip

Check the answer of this question online at QuizOver.com:

Question: [java message service use cases](#)

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#### 4.1.2. What is TRUE about synchronous and asynchronous communications?

Author: JavaChamp Team

What is TRUE about synchronous and asynchronous communications?

Please choose all the answers that apply:

- In an asynchronous communication, the requester of a service must wait for a response from the service
- In synchronous communication, the requester of a service must wait for a response from the service
- In synchronous communication, both parties must be active
- Synchronous communication overcomes asynchronous communication in terms of performance

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### 4.1.3. Which of the following is FALSE?

Author: JavaChamp Team

Which of the following is FALSE?

Please choose only one answer:

- the asynchronous consumer is notified when new messages arrive
- The synchronous consumer client checks and collects messages from destination and doesn't wait for notifications from destination
- An asynchronous consumer client checks the destination in time-intervals for any new messages

Check the answer of this question online at QuizOver.com:

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#### 4.1.4. Which is true about synchronous and asynchronous messaging in JMS?

Author: JavaChamp Team

Which is true about synchronous and asynchronous messaging in JMS?

Please choose all the answers that apply:

- a QueueReceiver or a TopicSubscriber in JMS, use the receive() method to consume a message synchronously
- a QueueReceiver or a TopicSubscriber in JMS, must use a message listener to consume a message synchronously
- a QueueReceiver or a TopicSubscriber in JMS, can consume a message asynchronously by using a message listener
- in asynchronous messaging, the onMessage() method of the consumer is invoked when a message arrives

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Question: [synchronous versus asynchronous messaging in jms java message service](#)

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#### 4.1.5. Which is considered an asynchronous protocol?

Author: JavaChamp Team

Which is considered an asynchronous protocol?

Please choose only one answer:

- Remote Procedure Call (RPC)
- Remote Method Invocation (RMI)
- Java Messaging Service (JMS)
- HTTP

Check the answer of this question online at QuizOver.com:

Question: [http asynchronous protocols](#)

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## 4. Chapter: Basics

### 1. Basics Questions

#### 4.1.1. What are the components of a JMS messaging application?

Author: JavaChamp Team

What are the components of a JMS messaging application?

Please choose all the answers that apply:

- a Queue
- a Message Producer
- a WebService end point
- a Message Convertor
- a Connection

Check the answer of this question online at QuizOver.com:

Question: [what does a jms messaging system encompass?](#)

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## 4.1.2. What is not considered a way in messages acknowledgement?

Author: JavaChamp Team

What is not considered a way in messages acknowledgement?

Please choose only one answer:

- AUTO\_ACKNOWLEDGE
- RECEIVER\_ACKNOWLEDGE
- CLIENT\_ACKNOWLEDGE
- DUPS\_OK\_ACKNOWLEDGE

Check the answer of this question online at QuizOver.com:

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### 4.1.3. What is the role of a JMS Destination component?

Author: JavaChamp Team

What is the role of a JMS Destination component?

Please choose all the answers that apply:

- a client uses the destination component to specify the target of messages that it produces
- a client uses the destination component to specify the source of messages that it consumes.
- a destination component creates connections with the source clients
- a destination component creates connections with the destinations clients

Check the answer of this question online at QuizOver.com:

Question: [what does a java message service jms destination do?](#)

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#### 4.1.4. Which of the following is NOT a JMS message valid body format?

Author: JavaChamp Team

Which of the following is NOT a JMS message valid body format?

Please choose only one answer:

- ByteMessage
- ObjectMessage
- CharMessage
- TextMessage

Check the answer of this question online at QuizOver.com:

Question: [mapmessage jms java message service message valid body format](#)

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#### 4.1.5. Which JMS messaging application components are obtained via JNDI lo...

Author: JavaChamp Team

Which JMS messaging application components are obtained via JNDI lookups?

Please choose all the answers that apply:

- Connection
- ConnectionFactory
- Session
- MessageProducer
- Destination

Check the answer of this question online at QuizOver.com:

Question: [how to obtain a destination in jms java message service?](#)

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#### 4.1.6. Which JMS messaging application component is responsible for produc...

Author: JavaChamp Team

Which JMS messaging application component is responsible for producing and consuming messages, managing transactions, and handling acknowledgments?

Please choose only one answer:

- Connection
- ConnectionFactory
- Session
- Message Sender and Message Receiver

Check the answer of this question online at QuizOver.com:

Question: [who is responsible for handling acknowledgments in java message service?](#)

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#### 4.1.7. Which method is called to receive messages in Java Message Service?

Author: JavaChamp Team

Which method is called to receive messages in Java Message Service?

Please choose all the answers that apply:

- receiveMessage()
- receive()
- receiveNoWait()
- acknowledge()
- onMessage()

Check the answer of this question online at QuizOver.com:

Question: [when is receiveNoWait\(\) method is invoked in java message service?](#)

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#### 4.1.8. What would you use to filter out messages that don't meet specified...

Author: JavaChamp Team

What would you use to filter out messages that don't meet specified criteria?

Please choose only one answer:

- a MessageListener
- a MessageScanner
- a MessageSelector
- a MessagePattern

Check the answer of this question online at QuizOver.com:

Question: [how to filter out messages in java message service jms?](#)

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#### 4.1.9. What is TRUE about Messaging versus RMI (Remote Method Invocation)?

Author: JavaChamp Team

What is TRUE about Messaging versus RMI (Remote Method Invocation)?

Please choose only one answer:

- Remote Method Invocation (RMI) enables communication in a loose coupling way, where the sender does not need to know anything about the receiver and vice versa
- Remote Method Invocation (RMI), which requires an invoker of a remote method to know about the other application
- Asynchronous messaging is considered a tightly coupled technology

Check the answer of this question online at QuizOver.com:

Question: [rmi \(remote method invocation\) a tightly coupled technology](#)

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#### 4.1.10. Preconfigured JMS objects created by an administrator for the use o...

Author: JavaChamp Team

Preconfigured JMS objects created by an administrator for the use of clients are:

Please choose all the answers that apply:

- messages
- destinations
- connections
- connection factories

Check the answer of this question online at QuizOver.com:

Question: [what are the preconfigured objects created by an administrator in jms java message service?](#)

Flashcards:

<http://www.quizover.com/flashcards/what-are-the-preconfigured-objects-created-by-an-administrator-in-jms-java-message-service?pdf=1505>

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#### 4.1.11. What is TRUE about Message Producers in JMS?

Author: JavaChamp Team

What is TRUE about Message Producers in JMS?

Please choose all the answers that apply:

- The Point To Point form of a message producer implements the TopicPublisher
- A message producer is an object created by a session and is used for sending messages to a destination
- to send a message using a QueueSender object, the send() method is called
- to send a message using a TopicPublisher object, the send() method is called
- to send a message using a TopicPublisher object, the publish() method is called

Check the answer of this question online at QuizOver.com:

Question: [jms java message service queuesender versus TopicPublisher](#)

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#### 4.1.12. What type of data does a StreamMessage carry?

Author: JavaChamp Team

What type of data does a StreamMessage carry?

Please choose only one answer:

- StreamMessage carries a stream of bytes
- StreamMessage carries a Serializable java object
- StreamMessage carries a stream of Java primitive types
- StreamMessage carries name-value pairs, where values can be Java primitives or their wrappers

Check the answer of this question online at QuizOver.com:

Question: [java message service message data formats](#)

Flashcards:

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## 4. Chapter: Point to Point and Publish/Subscribe Messagings

### 1. Point to Point and Publish/Subscribe Messagings Questions

#### 4.1.1. What is true about Destination components in Point to Point messagi...

Author: JavaChamp Team

What is true about Destination components in Point to Point messaging and Publish/Subscribe messaging?

Please choose all the answers that apply:

- a destination in Point to Point messaging is called Topic
- a destination in Point to Point messaging has one consumer for each message
- messages in a destination of Point to Point messaging are consumed in FIFO order
- messages sent to a destination of Publish/Subscribe messaging must be generated by only one publisher but can be consumed by many subscribers

Check the answer of this question online at QuizOver.com:

Question: [how a topic in publish/subscribe is consumed?](#)

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Interactive Question:

<http://www.quizover.com/question/how-a-topic-in-publishsubscribe-is-consumed?pdf=1505>

#### 4.1.2. What design pattern best describes the Publish/Subscribe messaging?

Author: JavaChamp Team

What design pattern best describes the Publish/Subscribe messaging?

Please choose only one answer:

- Proxy
- Bridge
- Observer
- Builder

Check the answer of this question online at QuizOver.com:

Question: [jms java message service gang of four gof design patterns](#)

Flashcards:

<http://www.quizover.com/flashcards/jms-java-message-service-gang-of-four-gof-design-patterns?pdf=1505>

Interactive Question:

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#### 4.1.3. Which of the following messaging approaches requires no timing depe...

Author: JavaChamp Team

Which of the following messaging approaches requires no timing dependencies between the sender(s) and receiver(s)?

Please choose all the answers that apply:

- Point-to-Point Messaging
- durable Publish/Subscribe Messaging
- non durable Publish/Subscribe Messaging
- Remote Procedure Call

Check the answer of this question online at QuizOver.com:

Question: [timing dependencies timing dependencies between the senders and receivers in messaging](#)

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