

**Exam : IBM 000-997**

**Title : Test997 WebSphere  
Message Broker V6.0,  
Solution Development**

**Version : Demo**

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1. A message flow receives messages from a COBOL application, transforms them to XML and delivers them to multiple consumers. Participating external consumers are spread across different messaging platforms, change frequently and are selective about which messages they choose to receive. Based on this information, which of the following is the most appropriate transport node to use to send messages from the flow?

- A.JMSOutput
- B.MQOutput
- C.MQeOutput
- D.SCADAOutput

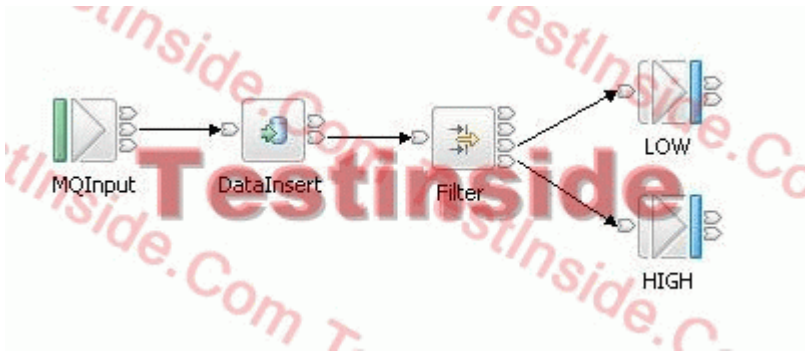
**Answer: A**

2. A message flow has been written which uses the MQGet node to retrieve a message from a queue. The message retrieved from the queue is an XML message. If the retrieval is successful, the body of the retrieved message should be placed at OutputRoot.XML.ReceivedMessage. The original Properties, Body and MQMD of the message passed to the Input terminal of the MQGet node must also be copied to OutputRoot. The property "resultDataLocation" has been set to 'ResultRoot.XML' and the property "outputDataLocation" has been set to 'OutputRoot.XML.ReceivedMessage'. What else must be done on the MQGet node's properties?

- A."Generate Mode" must be set to 'None' and "Copy Message" must be set to 'copyEntireMessage'
- B."Generate Mode" must be set to 'Message and LocalEnvironment' and "Copy Message" must be set to 'copyHeaders'
- C."Generate Mode" must be set to 'Message and LocalEnvironment' and "Copy Local Environment" must be set to 'copyEntireLocalEnvironment'
- D."Generate Mode" must be set to 'Message' and "Copy Message" must be set to 'copyEntireMessage'

**Answer: D**

3. Refer to Exhibit 2L04.jpg to answer question



A flow starts with an MQInput node that uses the XML parser. The message is recorded on a database using a DataInsert node. It then uses ESQL in a Filter node to test whether the message is High Priority using an appropriate message field. The message is then routed to queues HIGH or LOW using two MQOutput nodes connected to the True and False terminals respectively. All transaction modes are set to Automatic. No Failure or Catch terminals are wired up. If an XML message is passed in without a High Priority field present, which of the following will happen?

- A.The database will be updated and the message will end up in the HIGH Queue.
- B.The database update will be rolled back and the message will end up on the Backout Queue.
- C.The database update will be rolled back and the message will block the Input Queue.
- D.The database will be updated and the message will be lost.

**Answer: D**

4. An element in a message definition intended as output from a flow is a fixed length decimal type with CWF physical properties. The receiving application expects leading zeros to be included in the message. Which of the following properties would be used to accomplish this?

- A.Leading Skip Count
- B.Padding Character
- C.Byte Alignment
- D.Default Value

**Answer: B**

5. A developer has abstracted some common behavior of several JavaCompute Nodes into a utility class. The best way to package this class for use is in a jar file that is:

- A.placed in the jplugin directory of the Broker runtime.

- B.placed in the shared-classes directory in the Broker workpath.
- C.placed in the common-classes directory in the Broker workpath.
- D.copied into each BAR file that has a JavaCompute node that uses this class.

**Answer: B**

6. Which two of the following are primary functions of an Enterprise Service Bus (ESB)?

- A.Messaging
- B.Routing
- C.Persistence
- D.Transformation
- E.Security

**Answer: BD**

7. Which two of the following functions are provided by an Enterprise Service Bus (ESB)?

- A.The ability to abstract data from protocol and transport.
- B.The framework to build applications using web service.
- C.Enhanced support to integrate disparate applications.
- D.A platform to host J2EE applications.
- E.A flow application that contains business logic.

**Answer: AC**

8. WebSphere Message Broker receives data over the WebSphere MQ Real-time transport, and routes it out to a backend system via HTTP. Which of the following features of an Enterprise Service Bus (ESB) does this scenario demonstrate?

- A.Assured delivery of transactions
- B.Support for multiple operating systems
- C.Support for multiple connectivity protocols
- D.Data enrichment and transformation

**Answer: C**

9. Which feature of WebSphere Message Broker enables it to distribute messages to interested service consumers within a Service Oriented Architecture?

- A.Data transformation
- B.Timeout processing nodes
- C.Publish/subscribe messaging
- D.Message parsing

**Answer: C**

10. During a web service invocation, which of the following message elements would typically hold the payload that is being sent to the web service?

- A.SOAP-ENV:Body
- B.SOAP-ENV:Header
- C.wsdl:input
- D.xsd:data

**Answer: A**

11. Which of the following is a communication pattern defined by the SOAP specification?

- A.Request response call
- B.Remote procedure call
- C.Request call
- D.Response call

**Answer: B**

12. In an enterprise where all Publish/Subscribe clients are using the WebSphere MQ Real-time Transport, what security mechanism is available to secure topics?

- A.Authentication Services
- B.WS-Security
- C.User Name Server
- D.Message Protection

**Answer: C**

13. Combining which two of the following Publish/Subscribe topologies runs the risk of receiving duplicated subscription messages?

- A. Separate Broker and WebSphere MQ networks
- B. Cloned Brokers
- C. Broker Collectives
- D. Multicast Brokers
- E. Topic Ring

**Answer:** BC

14. A message flow contains both WebSphere MQ and database operations that will run in a global transaction. The flow starts with an MQInput node, contains a DataInsert node and ends normally with an MQOutput node. If an error occurs all operations are to be rolled back and an error message written to an error queue via another MQOutput node. Since the message flow is under a global transaction, how can the error be written to an error queue without it too being rolled back?

- A. Set the Transaction Mode of the MQInput node to No.
- B. Set the Transaction Mode of the error MQOutput node to No.
- C. Wire the error MQOutput node from the catch terminal of the MQInput node.
- D. Wire a Throw node after the error MQOutput node to throw an exception.

**Answer:** B

15. Design requirements indicate that a message flow will run in a global transaction. The flow is initiated by an MQInput node, contains two DataInsert nodes and terminates normally with an MQOutput node. One of the DataInsert nodes is for message logging. All messages must be logged whether or not they are successfully processed in the message flow. What is the best way to achieve this requirement?

- A. Configure the flow and resources to run in an uncoordinated transaction.
- B. Configure the flow and resources to run in a coordinated transaction.
- C. Wire the failure terminal of the logging DataInsert node so that downstream exceptions are caught by this node.
- D. Set the Transaction property of the logging DataInsert node to Commit.

**Answer:** D

16. A message flow is being designed to route customer orders received over the Internet. Initially, it is thought the volume of messages will be low. However, the designer of the flow wishes to ensure that multiple instances of the flow can run concurrently in the future. Which two of the following statements must be taken into consideration to allow multiple concurrent instances of the flow?

- A. Each message received at the flow's input queue must be independent of all other messages.
- B. If a shared variable is used as a counter, the BEGIN ATOMIC statement must also be used when reading and updating the shared variable.
- C. The Aggregate nodes cannot be used when multiple instances of a flow are planned.
- D. If the "Order Mode" property of the MQInput node is set to "By UserId", this guarantees that ALL messages associated with a particular UserId will be processed by the same message flow instance.
- E. Specifying "Commit by Message Group" on the MQInput node's properties causes a single message flow instance to process all messages in a group.

**Answer:** AB

17. An organization intends to scale their WebSphere Message Broker infrastructure by adding additional blade servers. Each new blade server will run a new Message Broker instance. The queue managers that the brokers run on will belong to a single WebSphere MQ cluster. The same set of message flows will be deployed to every broker instance. Messages will be load balanced across the brokers using WebSphere MQ clustering algorithms. Which of the following statements should a flow designer remember when specifying message flows to run in such an environment?

- A. Messages sent into the flows may not arrive in the sequence in which they were sent by the originating application, and may be processed by different brokers.
- B. The brokers must all share a single database, therefore each must have its own database schema.
- C. Large segmented messages will automatically be merged by the MQ cluster, so no action is required by the developer.
- D. A broker opens output queues using the MQOO\_BIND\_ON\_OPEN option, so each broker will always send its output messages to the same instance of the cluster queue.

**Answer:** A

18. A developer wants to insert content from the input message tree into a storage area in the Environment message tree. Which two of the following transformation mechanisms can be used to accomplish this?

- A.ESQL
- B.XSL Transformation
- C.Graphical Mapping
- D.Java
- E.JMSMQTransform node

**Answer: AD**

19. A developer is familiar with using XPath. The developer must implement a flow that transforms a message from a Cobol copybook format into a SOAP message. Which two of the following nodes can the developer use to perform the transformation using XPath?

- A.ESQL Compute Node
- B.JavaCompute Node
- C.Mapping Node
- D.XMLTransformation Node
- E.XPath Node

**Answer: BC**

20. Which of the following statements is true about submap procedures?

- A.A submap procedure can be called from an ESQL module.
- B.A submap procedure cannot call ESQL routines.
- C.A submap procedure can be specified in a Compute node's 'ESQL Module' property.
- D.A submap procedure can only be called from a map.

**Answer: A**

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