Vendor: IBM

Exam Code: C9530-415

Exam Name: IBM MQ V8.0, Solution Design

Version: Demo

QUESTION 1
A company has an administrative topic on the topic string airlineA/gate. They want to add another node to the topic, airlineA/gate/departure, and are deciding whether the new topic node should also be administrative. Which one of the following is an advantage of using an administrative topic?

A. Ability to check security on the topic
B. Ability to change the topic string later
C. Ability to assign attributes to the topic
D. Ability to view the status of the topic in WebSphere MQ Explorer

Correct Answer: C

QUESTION 2
A solution designer is considering writing a base WebSphere MQ client application, and needs to ensure that after the message is taken off the queue, the message is not lost if the transaction fails. Which one of the following should be used?

A. Utilize the MQGMO_SYNCPOINT option to process within syncpoint
B. Utilize the MQBEGIN and MQCMIT and MQBACK commands to process this in a Logical Unit of Work
C. Program with minimum application code to reduce the exposure window
D. The Extended Transactional Client or the full MQ Server installation is required

Correct Answer: A

QUESTION 3
A bus company is implementing a solution which will display in real-time the arrival information of the next bus on the bus stop sign. Each bus is sending information about its position at regular intervals. What is the best way of implementing this solution given that there is limited bandwidth for communication? The bus stop sign:

A. subscribes to messages published by the bus
B. queries a central system for bus position using SOAP over HTTP
C. replicates its own database every few minutes with a database stored on a central system
D. sends a message with a request every few minutes to a central system in order to query bus position. All replies are compressed.

Correct Answer: A

QUESTION 4
A manufacturing company is looking to provide its customers an online version of its order maintenance application. Customers will be able to check status, update the order, or delete the order. The existing solution is currently WebSphere MQ based, and the online interface will have strict performance requirements. If the customer updates or deletes an order, the message cannot be lost. Which one of the following solutions will BEST meet the requirements stated?

A. Ensure the queue data and logs are located together on the fastest disk possible
B. Alter the channel to set NPMSPEED(FAST), and send the messages down multiple channels.
C. Port the existing application to z/OS which has the highest performance and availability qualities of service

D. Design the query and modify operations to use nonpersistent and persistent messages respectively, and utilize two phase commit only where Necessary

Correct Answer: D

QUESTION 5
An application creates documents in PDF format, which are subsequently transmitted via WebSphere MQ to a number of other servers in the network. Each server runs its own queue manager. The documents received by some servers are consistently corrupted, whereas on other servers the documents are intact. Other message traffic seems unaffected. What is the most likely source of this problem?

A. The environment variable MQCCSID specifies an incorrect value on the affected servers.
B. Incompatible message compression parameters are configured on the sending and receiving channel agents.
C. The network connection to the affected servers is unreliable and a message retry exit was not specified on the sending channel agent.
D. The affected servers run different CCSIDs from the servers creating the documents and the message descriptor specifies MQMD.Format as QSTR? causing message conversion.?QSTR? causing message conversion.

Correct Answer: D

QUESTION 6
In a distributed environment, an application that periodically loads large numbers of persistent messages on to a queue is doing so under syncpoint control and issues a commit only after a number of messages have been put. While this application worked perfectly in test environments, there are frequently problems in the production environment. In addition to this new application, several previously unproblematic applications also experience failures such as reason codes MQRC_RESOURCE_PROBLEM or MQRC_BACKED_OUT. Which of the following is the best recommendation to remedy this problem?

A. Increase the maximum queue depth parameter.
B. Increase the log space allocation of the affected queue manager.
C. Return all affected applications to development for more stringent unit testing.
D. Schedule the new application to run only at off-peak times, when the queue manager is not busy.

Correct Answer: B

QUESTION 7
A solution depends on messages being dropped during a queue manager restart. These messages are defined as nonpersistent. After a queue manager restarts, the solution designer notes that the messages were not dropped as expected but got processed. Which one of the following options is the likely cause?

A. The messages reside on a z/OS shared queue
B. The application is using permanent dynamic queues
C. The application has not set persistence, and the default persistence at the QMGR level is DEFPSIST(YES)
D. The application is putting the messages to a QALIAS with DEFPSIST(NO), however the target queue has DEFPSIST(YES) set

Correct Answer: A

QUESTION 8
An organization uses WebSphere MQ V7.0 client interfaces extensively for non-critical processing. The line of business announces that an increase in transaction rates will be required soon, when a new set of clients will need to be serviced. The application suite has been performing up to expectations so far, but the new requirements will be problematic in the current environment. Which of the following new features of WebSphere MQ V8.0 can potentially be used to improve throughput for the above scenario?

A. No significant throughput improvements can be achieved with WebSphere MQ V8.0.
B. WebSphere MQ V8.0 Client channels can be configured to compress message data and thus save on network transmission time.
C. WebSphere MQ V8.0 Client channels are significantly faster than their V7 counterparts by default, so the solution designer does not need to consider any functionality changes or examine performance impacts with the new traffic.
D. WebSphere MQ V8.0 Clients can be configured to pool connections, to send messages without waiting for acknowledgement from the queue manager, and to asynchronously receive and cache incoming messages, before they have been requested by the receiving applications.

Correct Answer: D

QUESTION 9
The business wants to alert administrators and business owners to any service disruptions as soon as possible. This is to include any applications that receive request messages on input queues and have to respond to them as quickly as possible. The ideal solution will not introduce significant overhead to the environment. The WebSphere MQ solution designer is asked to evaluate the available features in WebSphere MQ that can be used to address this requirement. Which of the following is the most responsive mechanism to address outages as soon as they develop?

A. Activity Recording
B. Queue depth events
C. Queue service interval events
D. Trace Route messages

Correct Answer: C

QUESTION 10
A server application will be written to respond to request messages from multiple independent sources. Each request message will have a unique reply-to-queue. Which MQI calls should be used in addition to MQCONN and MQDISC?

A. MQGET, MQPUT
B. MQGET, MQPUT1
C. MQOPEN, MQCLOSE, MQGET, MQPUT
D. MQOPEN, MQCLOSE, MQGET, MQPUT1

Correct Answer: D

QUESTION 11
A company needs to improve availability of client connections for its distributed applications.
Which one of the following is a true statement about a new option or capability of WebSphere MQ
V8.0 that could improve availability?

A. TCP/IP client connections are now always full duplex, and full duplex can support earlier detection of network failures
B. Client connections on the same server can share an instance of a channel connection, reducing the number of sockets required
C. The new MQSTAT verb can be used to determine the health of a Queue Manager, leading to quicker detection and recovery from an outage
D. There is a new maximum instance channel limit that can catch a client application instance that is attempting to use an excessive number of channel connections

Correct Answer: D

QUESTION 12
A company has an existing point to point application written in C that distributes delivery status to
queue Q1. They want to change the distribution to publish/subscribe so that other applications
can subscribe to the delivery status information. Which of the following ways of changing to
WebSphere MQ publish/subscribe will work with the least recoding?

A. Run WebSphere MQ in PSMODE=COMPAT
B. Set up a queue alias for Q1 that is an alias for a subscription topic
C. Change the sending application program to use the WebSphere MQ publish/subscribe API instead of point to point
D. Change the sending application program to use WebSphere MQ publish/subscribe commands in RFH2 headers instead of the point to point API

Correct Answer: B

QUESTION 13
A company is using WebSphere MQ V7 publish/subscribe to publish status information about an
application on the topic string ustomer/status. A new MQI application wants to subscribe to the
status information, but is only interested in the information when the status is available. The
solution designer is evaluating ways to design the solution so that the application only receives a
subscription when the status is available solution designer is evaluating ways to design the
solution so that the application only receives a subscription when the status is available. The
company does not mind writing additional code as long as it does not impact existing subscribers,
but they do not want to change the topic. Which set of product(s) can provide the needed
publish/subscribe function using the least components?

A. WebSphere MQ V8.0
B. WebSphere MQ V8.0 with WebSphere Message Broker
C. WebSphere MQ V8.0 with the WebSphere MQ Explorer Publish/Subscribe plug-in SupportPac
D. WebSphere MQ V8.0 with WebSphere Message Broker and the WebSphere MQ Explorer Publish/Subscribe plug-in SupportPac

Correct Answer: A

QUESTION 14
An application needs to display the last published message every five minutes. What is the best
way of doing this?

A. Use MQSUB with SubExpiry set to 300.
B. Use MQSUB with MQSO_PUBLICATIONS_ON_REQUEST option and SubExpiry set to 300.
C. Use MQSUB with MQSO_PUBLICATIONS_ON_REQUEST and call MQSUBRQ every five
   minutes.
D. Use MQSUB with MQSO_NEW_PUBLICATIONS_ONLY and call MQSUBRQ every five minutes.

Correct Answer: C

QUESTION 15
Which of the following best explains under which circumstances synchronous put can be useful
for a client application?

A. The designer wants to improve the performance of puts, and the application needs immediate
   confirmation that the put was successful.
B. The designer wants to improve the performance of puts, and the application does not need
   immediate confirmation that the put was successful.
C. Asynchronous put cannot be used for messages put under syncpoint, but is a good option to use
   otherwise.
D. If all the messages put by the application are nonpersistent, as they are required to be for
   asynchronous put, it would be appropriate to use this option to improve performance.

Correct Answer: B

QUESTION 16
WebSphere MQ clusters are sometimes positioned to provide high availability for backend
services. For many use cases this works well; but which concern may make this solution
unacceptable in some cases?

A. Special considerations apply when software maintenance needs to be applied.
B. Client applications connected to a queue manager cannot continue processing when it becomes
   unavailable.
C. In the event of a server outage messages already queued will be delayed until the server can be
   restarted.
D. Some topologies cannot be implemented because queue managers can only be members of one
   cluster.

Correct Answer: C

QUESTION 17
What is a particular advantage of designing a publish/subscribe application to use a managed
subscription, when the subscription type is non-durable?

A. Any messages for this subscription will be managed by the queue manager, so they can be
   available if there are any subsequent subscribers.
B. The temporary dynamic queue used for the subscription will be deleted, along with any messages
   on it, when the subscribing applicationThe temporary dynamic queue used for the subscription will
   be deleted, along with any messages on it, when the subscribing application' connection is

closed. The temporary dynamic queue used for the subscription will not be deleted by the queue manager until the current depth of the queue is zero.

C. The temporary dynamic queue used for the subscription will not be deleted by the queue manager until the current depth of the queue is zero, and the subscribing application connection is closed.and the subscribing application? connection is closed.

Correct Answer: B

QUESTION 18
An organization has a widely distributed online environment, where applications are connected via WebSphere MQ messaging. A business requirement is brought forward that certain mission critical applications record audit trail data which is to be collected in a central location. No information can be lost. A central data warehouse must be loaded daily with this information as soon as possible after end of business. Which of the following proposed solutions is best in terms of the requirement, reliability and overall performance? The audit trail data is:

A. written to a file on the local file system and transmitted to the central audit trail server via reliable file transfer over WebSphere MQ.
B. sent as a persistent WebSphere MQ message and forwarded to the queue manager of the central server asynchronously.
C. inserted into a central database table via a remote access database client under control of the local WebSphere MQ transaction.
D. inserted into a local database table under two phase commit using WebSphere MQ as the transaction manager and a bulk update is performed at end of day.

Correct Answer: B

QUESTION 19
A solution designer is considering different API options for a new WebSphere MQ application. Only IBM supported WebSphere MQ programming options should be considered. Which one of the following is not supported by IBM?

A. XMS
B. JMS
C. Perl
D. WebSphere MQ classes for .NET

Correct Answer: C

QUESTION 20
A solution designer is evaluating distribution scenarios and wants to understand the circumstances where messages are not delivered as expected. Which of the following are reasons that a message is placed on the DLQ?

A. A trigger monitor is unable to start the triggered program
B. The destination queue is full when the program puts the message to the local queue
C. The queue manager is quiescing when the program puts the message to the queue
D. A sending message channel agent is unable to perform data conversion when required for the message
E. The program tries to put a message to an invalid local queue

Correct Answer: AD