

**Vendor:** Tibco

**Exam Code:** TB0-118

**Exam Name:** Architecting Composite Applications and Services with TIBCO

**Version:** Demo

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## Topic 1, Volume A

### QUESTION NO: 1

Within TIBCO ActiveMatrix Administrator, which three can have logging enabled? (Choose three.)

- A. ActiveMatrix host
- B. ActiveMatrix environment
- C. ActiveMatrix node
- D. ActiveMatrix composite application
- E. ActiveMatrix enterprise

**Answer: A,C,D**

### QUESTION NO: 2

A company wants to automate its interactions with its partners. Which product is best suited for this purpose?

- A. TIBCO Business Studio
- B. TIBCO ActiveMatrix Service Grid
- C. TIBCO ActiveMatrix BusinessWorks
- D. TIBCO BusinessConnect
- E. TIBCO ActiveMatrix BPM

**Answer: D**

### QUESTION NO: 3

Which two transaction policies are supported by TIBCO ActiveMatrix Service Bus? (Choose two.)

- A. JDBC transaction
- B. managed transaction
- C. XA transaction
- D. single resource transaction
- E. transacted one-way

**Answer: C,D**

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**QUESTION NO: 4**

What are two properties of a push-based cached composite service? (Choose two.)

- A. Responses require the invocation of all underlying services.
- B. Underlying services are not required.
- C. Underlying services are not impacted when the composite responds to requests.
- D. Responses are provided from information private to the service.

**Answer: C,D**

**QUESTION NO: 5**

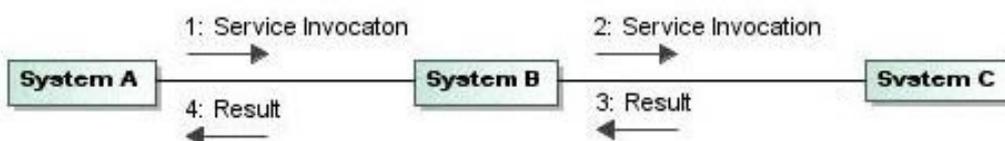
Which measurement determines if the Recovery Time Objective is being achieved?

- A. Mean Time Between Failures
- B. Mean Time to Repair
- C. Maximum Time to Repair
- D. Number of Failures/Time

**Answer: B**

**QUESTION NO: 6**

System A invokes a service on System B, which in turn invokes a service on System C. System C's result is returned to System B, which uses it to create the final result for System A.



Which statement about the coordination patterns is correct?

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- A. Multi-party request-reply is most appropriate when System C's operation takes a long time.
  - B. Multi-party delegation is most appropriate when the result of System C's operation must be reliably returned.
  - C. Multi-party delegation with confirmation is most appropriate when System C's operation takes a long time.
  - D. Multi-party fire-and-forget is most appropriate when the result of System C's operation must be reliably returned.

**Answer: C**

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

Which two statements are true about the Total Architecture approach to system, data, and business process integration? (Choose two.)

- A. Total Architecture provides business benefit by Web Service enabling relevant interfaces and business processes in the enterprise.
- B. Today's business solutions combine data, events, processes and people, which Total Architecture must consider when designing a suitable solution.
- C. Total Architecture ensures that the solution is suitable for its intended purpose but adaptable to changes in the business process it supports.
- D. Total Architecture provides a generic framework that is suitable for implementing the range of common business processes.

**Answer: B,C**

#### **QUESTION NO: 8**

Which three statements are true? (Choose three.)

- A. An ActiveMatrix host can manage multiple ActiveMatrix nodes.
- B. An ActiveMatrix host can manage multiple ActiveMatrix environments.
- C. An ActiveMatrix environment can contain multiple ActiveMatrix nodes.
- D. An ActiveMatrix node can contain multiple ActiveMatrix Administrators.
- E. A TIBCO Enterprise Message Service server can support multiple ActiveMatrix environments.

**Answer: A,C,E**

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**QUESTION NO: 9**

A solution needs to update a backend database with a JDBC interface. Which TIBCO ActiveMatrix component should you recommend?

- A. ActiveMatrix Mediation implementation type
- B. ActiveMatrix Spring implementation type
- C. ActiveMatrix BusinessWorks
- D. ActiveMatrix WebApp implementation type

**Answer: C**

**QUESTION NO: 10**

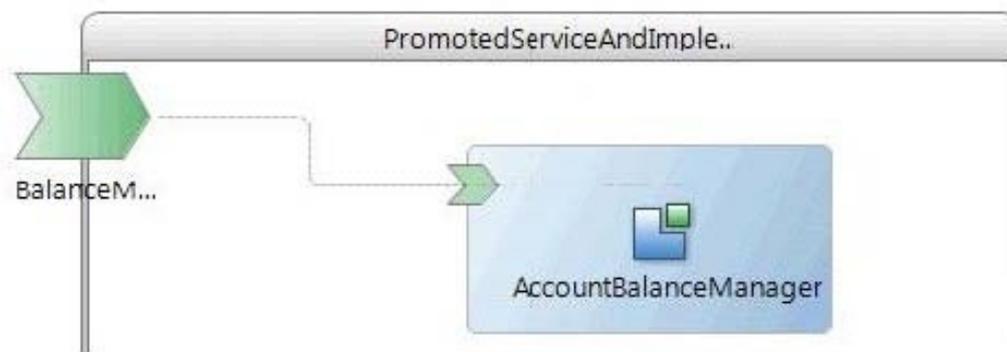
A service has an inbound SOAP/HTTP binding. There is no external load balancer available. The invocation overhead under extremely high load volumes causes requests to queue for dispatch. What is the recommended way to improve request dispatch concurrency?

- A. deploy additional service instances to handle the request load
- B. use policies to specify the thread pool management
- C. implement a flow-control policy set to limit the rate of incoming requests
- D. change from a SOAP binding to a virtualization binding

**Answer: B**

**QUESTION NO: 11**

Consider the following design of a BalanceManager service and its corresponding implementation in the AccountBalanceManager:



Which statement is true about the deployment of the AccountBalanceManager component?

- A.** It is illegal to deploy more than one instance of the AccountBalanceManager.
- B.** If two instances of the AccountBalanceManager are deployed on different nodes than the BalanceManager Service, each service request will be handled by one of the instances.
- C.** If two instances of the AccountBalanceManager are deployed on different nodes than the Balance Manager Service, each service request will be handled by both of the instances.
- D.** If one instance of the AccountBalanceManager is deployed on the same node as the BalanceManager Service and another AccountBalanceManager is deployed on a different node, the instance on the different node can never receive the requests.

**Answer: B**

#### QUESTION NO: 12

Which statement best characterizes the IT architecture for a solution?

- A.** It defines the set of products, technologies, programming tools, and coding standards to be used to implement a solution.
- B.** It is a compilation of user features required for the solution.
- C.** It defines the structure of a solution (communication mechanisms, components) suitable for the present purpose.
- D.** It provides a generic framework, such as an application server, that is suitable for solving any common business problem.

**Answer: B**

#### QUESTION NO: 13

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Which two should be considered when deciding the number of versions to maintain of a particular service? (Choose two.)

- A. the frequency with which incompatible service provider interface changes are deployed
- B. the number and hierarchy of organizations having consuming applications
- C. the frequency with which compatible service provider interface changes are deployed
- D. the frequency with which service consumers typically deploy changes

**Answer: A,D**

**QUESTION NO: 14**

When wrapping a backend system, what does a Web Service always provide that the native system interface does not?

- A. standardized service operation semantics
- B. an HTTP-based interface
- C. a common data model
- D. access independent of implementation technology

**Answer: D**

**QUESTION NO: 15**

Which three are required in order to determine the feasibility of providing a proposed service? (Choose three.)

- A. service architecture
- B. binding port specification
- C. service interface specification
- D. user interface specification
- E. service utilization scenarios

**Answer: A,C,E**

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**QUESTION NO: 16**

Which three statements are true about the TIBCO Collaborative Information Manager? (Choose three.)

- A. It completely automates the process of keeping data consistent.
- B. It manages the workflow required to reconcile inconsistent data.
- C. It updates data in other systems when change notifications arise.
- D. It receives data change notifications from individual systems.

**Answer: B,C,D**

**QUESTION NO: 17**

What are two possible actions a Mediation implementation type can take when the underlying service times out? (Choose two.)

- A. return a constructed reply message
- B. loop and try again
- C. update a database
- D. return a SOAP fault

**Answer: A,D**

**QUESTION NO: 18**

What is the Recovery Point Objective (RPO) of a system?

- A. a formal contract detailing the critical systems to be restored
- B. the point in time to which the application state must be restored
- C. the complete collection of data that must be restored
- D. the time period that can elapse before normal operation must be restored

**Answer: D**

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**QUESTION NO: 19**

Which two statements reflect the realities about using common data models? (Choose two.)

- A. A common data model provides a single representation of each concept that is used everywhere.
- B. The goal of common data models is to minimize the number of representations of each concept.
- C. The use of comprehensive data structures that combine many concepts simplifies interface design.
- D. Enterprises typically require more than one representation for each concept.

**Answer: B,D**

**QUESTION NO: 20**

Which activity is appropriate for implementation as a synchronous request-reply operation?

- A. processing a request that requires human action
- B. performing a long-running update to a backend system
- C. keeping a cache of customer information continuously updated
- D. retrieving data from a backend system

**Answer: D**

**QUESTION NO: 21**

What is the recommended TIBCO best practice for handling major version changes to interfaces?

- A. The service version should be identified in the SOAP body.
- B. Interface definitions should contain "Any" elements as general purpose extension areas.
- C. New major versions should be treated as new services.
- D. All components must be upgraded to always use the latest version.

**Answer: C**

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**QUESTION NO: 22**

Which two interaction patterns are supported in TIBCO ActiveMatrix Service Bus? (Choose two.)

- A. Synchronous In-Out with SOAP/JMS
- B. Asynchronous In-Out with SOAP/HTTP
- C. Synchronous Out-In with XML over JMS
- D. Asynchronous Out-Only with XML over JMS

**Answer: A,D**

**QUESTION NO: 23**

Which three can be achieved out-of-the-box in TIBCO ActiveMatrix Mediation implementation type? (Choose three.)

- A. schema validation
- B. sub-routine call
- C. data mapping
- D. content-based routing
- E. database update

**Answer: A,C,D**

**QUESTION NO: 24**

Which type of wiring can be done at deployment time?

- A. from a reference in one SCA composite to a service of another SCA composite
- B. from a service in one SCA composite to a reference of another SCA composite
- C. from a component reference to a component service in the same SCA composite
- D. from a component service to a component reference in the same SCA composite

**Answer: A**

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**QUESTION NO: 25**

When is it appropriate to use a Mediation implementation type?

- A. when the interaction with an underlying service is asynchronous
- B. when each underlying service operation completes quickly
- C. when service operation might need human interaction
- D. when the underlying service is a REST service

**Answer: B**

**QUESTION NO: 26**

How do you achieve high availability for a TIBCO ActiveMatrix Spring component providing a service with a JMS binding type?

- A. deploy the service in the system node so the ActiveMatrix infrastructure can manage availability
- B. deploy the service across multiple nodes; TIBCO Enterprise Message Service delivers requests to the next available service instance
- C. create a single node that spans multiple hosts to provide resiliency in the event of host failure
- D. specify virtualization upon service deployment allowing ActiveMatrix to transparently recover a failed service

**Answer: B**

**QUESTION NO: 27**

A manufacturer exposes a Web Service to its customers, allowing them to securely place orders. The manufacturer requires that only known parties use the interface. How is the customer's identity established?

- A. by implementing a transactional policy set in ActiveMatrix
- B. by specifying an authentication policy for the Web Service
- C. by sending the message over an SSL-encrypted channel
- D. by implementing strict authorization rules for the service

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**Answer: B**

**QUESTION NO: 28**

Which two statements are true about the Delegation pattern? (Choose two.)

- A. The service consumer receives confirmation that the work was completed successfully.
- B. The service consumer receives confirmation that the request was accepted.
- C. The service provider sends the work result to the service consumer.
- D. The service consumer does not receive the work result.

**Answer: B,D**

**QUESTION NO: 29**

How do you achieve high availability for a TIBCO ActiveMatrix Java component providing a service with a SOAP/HTTP binding type?

- A. specify virtualization upon service deployment allowing ActiveMatrix to transparently route requests
- B. deploy the service in the system node so the ActiveMatrix infrastructure can manage availability
- C. deploy the service across multiple nodes and place a load balancer in front of the service instances
- D. create a single node that spans multiple hosts to provide resiliency in the event of host failure

**Answer: C**

**QUESTION NO: 30**

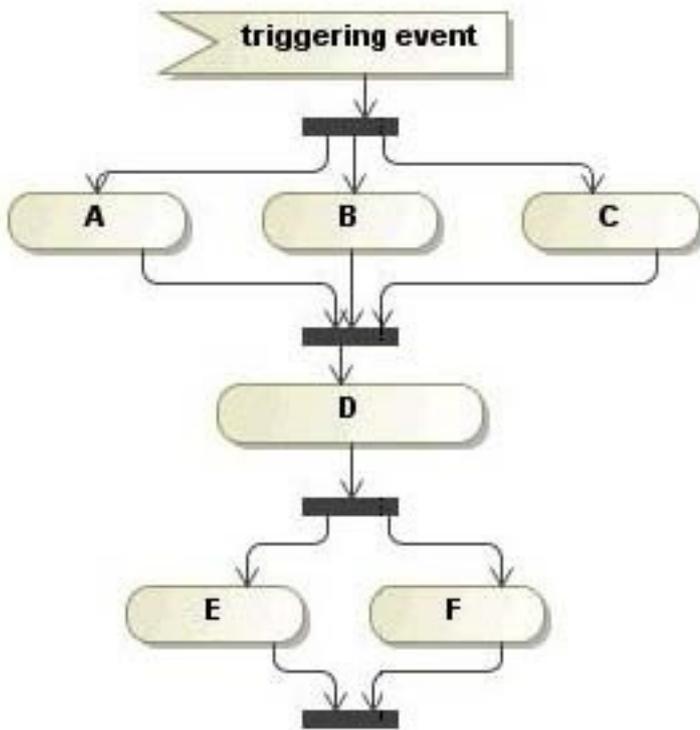
Which TIBCO product is designed to operate as a cache without customization?

- A. BusinessEvents
- B. ActiveMatrix Service Grid
- C. BusinessWorks SmartMapper
- D. ActiveMatrix BPM

Answer: C

**QUESTION NO: 31**

Given this process model:



Which three activity sequences could occur? (Choose three.)

- A. A, B, C, D, E, F
- B. C, B, A, D, F, E
- C. B, A, F, D, C, E
- D. B, A, C, D, E, F
- E. B, A, E, D, F, A

Answer: A,B,D

**QUESTION NO: 32**

What is used to deliver status notifications from the TIBCO ActiveMatrix node to the ActiveMatrix

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Administrator?

- A. RMI
- B. TIBCO Enterprise Message Service
- C. HTTPS
- D. TIBCO Rendezvous

**Answer: B**

**QUESTION NO: 33**

Which two notations are appropriate information model representations? (Choose two.)

- A. UML use case diagram
- B. UML class diagram
- C. UML state machine diagram
- D. ER diagram

**Answer: B,D**

**QUESTION NO: 34**

A TIBCO ActiveMatrix Service Bus-based order fulfillment application makes outbound requests to an inventory service. Based on the geography and quantity of the order, the request must be routed to one of a number of different specialized inventory service instances. What are two possible ways to route the requests in ActiveMatrix? (Choose two.)

- A. configure the order fulfillment application to reference the different inventory service instances
- B. use XPath to create conditional references from the order fulfillment composite to each inventory service instance
- C. create a Mediation Flow containing route tasks and route cases
- D. create a dynamic binding to the inventory service and use XPath to compute the routing

**Answer: C,D**

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**QUESTION NO: 35**

Which communication mechanism is used between a composite service and a component service when they are hosted on different nodes?

- A. TIBCO Rendezvous
- B. HTTP
- C. SOAP/JMS
- D. SOAP/HTTP

**Answer: C**

**QUESTION NO: 36**

Which two statements are true when a user has TIBCO ActiveMatrix Service Grid manage the transactional context? (Choose two.)

- A. Transactional context may span only a single component. Context cannot be propagated for requests made to other components.
- B. Transactional context may be propagated to components distributed across multiple nodes within the same ActiveMatrix host.
- C. Database resources that participate in the transaction do not need to share the same JDBC Connection Resource Template definition.
- D. Transactional context may span multiple components in the same node.

**Answer: C,D**

**QUESTION NO: 37**

What is a reference architecture?

- A. a set of standards recommended for all integration and workflow solutions
- B. a generic technology framework that is suitable for solving a wide range of common business problems
- C. the standard set of products selected for integration and workflow solutions
- D. a repeatable pattern reflecting a set of design choices suitable for solving a class of problems

**Answer: D**

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**QUESTION NO: 38**

What can a resource template specify in ActiveMatrix?

- A. a list of substitution variables
- B. an HTTP client configuration
- C. an implementation type
- D. a binding type

**Answer: B**

**QUESTION NO: 39**

You have a composite with a single SOAP/HTTP service and a component providing the service. Deploying the composite on a single node does not provide sufficient capacity to handle the load. What should you do?

- A. use a mediation component to distribute the load
- B. deploy the SOAP/HTTP service on one node and the component on a different node
- C. deploy multiple instances of the component on different nodes
- D. add more nodes to the system

**Answer: C**

**QUESTION NO: 40**

Which of the following is a service "best practice"?

- A. Short term service interface stability can be achieved through WSDL versioning methods.
- B. To allow service implementation changes, most WSDL data types should be xsd:any.
- C. A candidate service should have a high potential for reuse, a non-trivial implementation, and the expectation of a stable interface.
- D. Complex service implementations should always be broken down into simpler modular services.

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Answer: C

**QUESTION NO: 41**

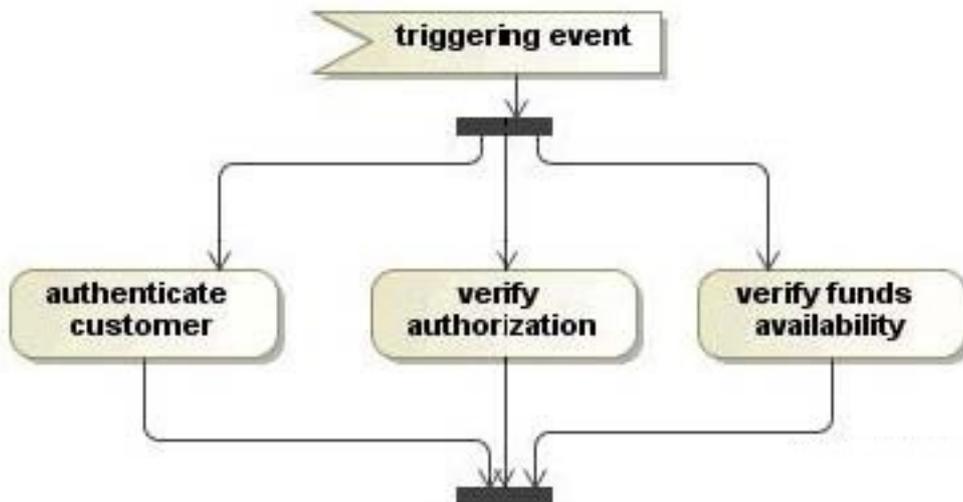
Which two should be part of a service specification? (Choose two.)

- A. service architecture
- B. interface specifications
- C. implementation technology selections
- D. usage patterns

Answer: B,D

**QUESTION NO: 42**

Consider the following process model:



Which statement is true with respect to the authenticate customer, verify authorization, and verify funds availability activities?

- A. They always occur at the same time.
- B. They never occur at the same time.
- C. They may occur at the same time.
- D. They must occur at the same time.

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**Answer: C**

**QUESTION NO: 43**

A service is being proposed to support all of a company's shipping operations. The service is to be used by all channels through which orders can be placed. A proposal is made to name one of the shipping operations "initiateExpressShippingSyncRequestSAP". Which two statements are true about the operation name? (Choose two.)

- A.** This is a poor choice because it uses implementation detail in a logical service name.
- B.** This is a good choice because it provides as much detail about the working of the service as possible.
- C.** This is a good choice because it markets express shipping to potential customers.
- D.** This is a poor choice because it contains a term that may change over time.

**Answer: A,D**

**QUESTION NO: 44**

What are two essential elements of a reference architecture? (Choose two.)

- A.** a concrete deployment model
- B.** an abstracted architecture pattern
- C.** a common data model
- D.** an abstracted process model

**Answer: B,D**

**QUESTION NO: 45**

Which two statements are true with respect to the granularity of a service? (Choose two.)

- A.** Fine-grained services are likely to be usable in many places, so you can ignore their access overhead.
- B.** Fine-grained service benefits may be outweighed by their access overhead.

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**C.** Coarse-grained services are likely to be reusable because they encapsulate a lot of functionality

**D.** Coarse-grained services are less likely to be reusable because they encapsulate a lot of functionality.

**Answer: B,D**

**QUESTION NO: 46**

Where is a TIBCO ActiveMatrix resource template instantiated?

**A.** ActiveMatrix host

**B.** ActiveMatrix application

**C.** ActiveMatrix node

**D.** ActiveMatrix feature

**Answer: C**

**QUESTION NO: 47**

What is the Recovery Time Objective of an application?

**A.** the point in time to which data must be restored from a backup

**B.** the period of time allowed for restoring normal services that an application provides

**C.** the period of time it takes to replicate the application's data

**D.** the period of time that it takes to detect a failure

**Answer: B**

**QUESTION NO: 48**

Which three categories of information should be found in a domain information model? (Choose three.)

**A.** concepts

- 
- B. detailed attributes
  - C. attribute datatypes
  - D. identifiers
  - E. relationship multiplicity

**Answer: A,D,E**

**QUESTION NO: 49**

Which three characteristics indicate that a process might be a good candidate for a service? (Choose three.)

- A. The functionality is used by multiple clients.
- B. All operations of the service are implemented on the same backend application.
- C. The SLAs are the same for each client.
- D. The functionality is easily identified as an atomic step in a business process by a business user.

**Answer: A,C,D**

**QUESTION NO: 50**

Which three characteristics define a Service Component Architecture component type? (Choose three.)

- A. the implementation technology of the component
- B. the services that are provided by the component
- C. the properties of the component
- D. the binding types of the component
- E. the references that are made by the component

**Answer: B,C,E**

**QUESTION NO: 51**

You are using TIBCO ActiveMatrix Service Grid to provide a Web Service for B2B interactions. What should you use to access the service?