



BEA SOA Adoption & Implementation Mock Exam

This mock exam is designed to help candidates make a better assessment of their exam readiness. This mock exam includes 40 practice questions which mimic actual questions on the BEA SOA Adoption & Implementation exam (OB0-107). Each question is related back to the objectives of the exam to allow the candidate to properly assess their preparedness of the topics covered in the exam. Please refer to the Exam Objectives document available on the Requirements & Preparation page here:

http://certification.bea.com/certification/certification_reqs.jsp for further details. Answers are provided at the end of the mock exam documents. Mock exams are not available for all certification exams at this time. Results from the mock exam do not guarantee success/failure on the actual exam. However, they allow candidates to understand what types of questions are asked and to assess their readiness to take the official exam. If after completing the mock exam results show that the candidate requires additional preparation, BEA highly encourages the candidate to participate in the relevant training applicable to the certification exams. Relevant training for each certification path can be found within the Requirements & Preparation page.

BEA continues to encourage all candidates to review the exam objectives documents available within the page above. Please note only the preparatory materials provided on this website are validated against actual BEA Certification material and proprietary content.

As means of certification preparation, BEA highly encourages individuals to attend suggested BEA Education courses since they provide preparations to relevant content in the exams. However, to successfully pass the exams, you are additionally expected to draw on your own practical and implementation experience. The exam objectives outlined on this page: http://certification.bea.com/certification/certification_reqs.jsp will provide you with a better understanding of what BEA tests you on for each certification role.

Question 1 – Objective 3 - Architecture

In the Layered Architecture Model, which of the following is NOT a type of service?

- A. Business Services
- B. Data Services
- C. Presentation Services

- D. Wrapper Services

Question 2 – Objective 6 - Organization and Governance

The Avionics Engineering Corporation (AEC) has three large offices throughout the United States (only), with its main hub in the Washington D.C. area. The other offices are found in Boston and St. Louis. All the three offices have historically enjoyed a fair measure of independence from each other, although the D.C. office has enjoyed a slightly privileged status of being “first among equals”. The AEC is now shifting to SOA, and the implications for governance are now being considered. If the current “balance of power” within AEC is desired to be maintained, which governance model would be the best fit?

- A. Federated
- B. Hierarchal
- C. Centralized
- D. Partially Federated

Question 3 – Objective 4 - Building Blocks

Which characteristic best distinguishes SOA technologies from previous approaches?

- A. Loose coupling
- B. Object based
- C. Synchronous
- D. Fine-grained

Question 4 – Objective 4 - Building Blocks

TVs-R-Us is a retailer of video and audio products. They currently use a JMS-based system to share information between their stores and their central warehouse. Why would they consider integrating their current system into an ESB? Choose three.

- A. Faster communications
- B. Service Load balancing
- C. Service Monitoring
- D. Dynamic message routing
- E. Tighter application coupling
- F. Finer-grained messaging

Question 5 – Objective 1 - Domain Model Concepts

TVs-R-Us wants to select a platform for offering data integration services. Which tool provides that service?

- A. ALDSP
- B. ALSB
- C. ALSR
- D. ALBSI

Question 6 – Objective 3 - Architecture

A service requires an XML data parameter whose schema recently included the addition of five additional data fields. Four of these fields are optional, but the field named `CustomerCategory` (used to aid in cross-selling efforts) is mandatory, resulting in an incompatibility with the existing service interface. If the new service version is deployed to a

new URL endpoint, how should existing dependencies upon the old URL endpoint be addressed?

- A. All dependents should immediately migrate to the new URL.
- B. An intermediary should be provided to adapt the interface from the old URL to the new URL.
- C. All dependents can continue to utilize the old URL because both versions of the service should be maintained in production.
- D. An intermediary should be provided to adapt the interface from the new URL to the old URL.
- E. A single intermediary should be used to front-end both the old and new URL and provide intelligent routing (perhaps based on a version number).

Question 7 - Objective 5 - Projects and Applications

NightRider, a motorcycle parts manufacturer, wants to start an SOA project. Where should they concentrate their work for the initial effort?

- A. A simple application with little visibility
- B. A simple application with high-level visibility
- C. A large-scale application integrated with most corporate systems
- D. A large-scale application integrated with many external suppliers

Question 8 - Objective 4 - Building Blocks

A business transaction in an SOA application includes which characteristic?

- A. The XA protocol
- B. 2PC commits

- C. None of the above

Question 9 - Objective 4 - Building Blocks

Which is not a characteristic of a compensating transaction?

- A. Undoes the work of a failed business transaction
- B. Is a separate business transaction from the transactions originally attempted.
- C. May consist of several system transactions.
- D. Uses the XA protocol

Question 10 – Objective 3 - Architecture

Why are idempotent operations important for distributed transactions?

- A. Simplifies recovery operations
- B. Potentially produces a different result each time invoked
- C. Automatically invokes commit/rollback processing
- D. Includes operation tracing logic for debugging applications

Question 11 - Objective 2 - Business Strategy and Process

ABX Corporation must supply production information to its a major customer periodically. This customer uses a .Net application and accumulating that information can take varying lengths of time. Which approach should ABX use from their Java, J2EE environment?

- A. Asynchronous SOAP request with a callback
- B. Synchronous requests
- C. JMS point-to-point calls



- D. Create data file extracts to be delivered to the customer via periodic emails
- E. Create a new .Net application to retrieve and deliver the appropriate data

Question 12 - Objective 1 - Domain Model Concepts

As an architect for ABX Corporation, you are responsible for developing a model for describing data services. Which item is NOT a layer to include in the model?

- A. Application
- B. Logical
- C. Canonical
- D. Physical
- E. Synthesized

Question 13 - Objective 1 - Domain Model Concepts

ABX Corporation has begun to adopt an SOA program. They have created an architecture, created infrastructure services and have identified project priorities. However some IT managers have expressed doubts about why this strategy has been adopted and how expensive it might be. Which of the SOA domains could most use improving? Choose two.

- A. Architecture
- B. Costs & Benefits
- C. Building Blocks
- D. Projects & Applications
- E. Organization & Governance



Question 14 – Objective 3 - Architecture

Which design pattern can be used to ensure that consistent data is passed within a service bus?

- A. Fork/Join
- B. VETO
- C. Delegation
- D. Exception Handling

Question 15 - Objective 5 - Projects and Applications

An order entry service is deployed on a .NET-based system, using SOAP over HTTP, with an expected response time of 1.0 seconds. What product could collect and report on response time information?

- A. ALSR
- B. ALDS
- C. WLS
- D. ALSB

Question 16 - Objective 4 - Building Blocks

Which two of the following are typical implementations of a shared business service? Choose two.

- A. Composite services
- B. Service orchestrations
- C. Enterprise Service Bus proxies
- D. Packaged Application APIs

- E. Java Messaging Service

Question 17 – Objective 3 - Architecture

The design of a particular application requires that it must obtain additional elements from an external source and add them to the messages it processes. What is the appropriate design pattern for the application?

- A. Service callout
- B. Asynchronous request/response
- C. VETO
- D. Parallel fan out with join

Question 18 - Objective 2 - Business Strategy and Process

ABX Corporation would like to allow certain users a subset of rights for changing information on their accounts. Which is approach below could add that capability without rewriting the application?

- A. Integrate ALES with existing authorization system to add business rules to security services.
- B. Integrate ALSR with existing service look-ups to route to small utility applications which filter requests based on the business rules.
- C. Integrate with ALBSI to provide a new user application with request filters for the business rules.
- D. No extensions can provide this service. The application must be re-written.

Question 19 - Objective 4 - Building Blocks

Components of an order management system are spread across implementations on .NET, Java, and C, on Windows, UNIX and Mainframe platforms. What standard or proprietary approach should be considered as the primary means to request and issue security tokens across these components?

- A. EJB with the JCA adapters
- B. SAML
- C. WS-Trust
- D. .NET Enterprise Services with Microsoft Distributed Trust Services

Question 20 – Objective 6 - Organization and Governance

Which of the following is NOT an organizational and governance concern?

- A. Define and modify services
- B. Decide and define who is allowed access to services.
- C. Define the quality of services provided
- D. Determine who will pay for building the services.
- E. Determine boundaries of business transactions

Question 21 – Objective 6 - Organization and Governance

Which two of the following are aspects of SOA Governance? Choose two.

- A. Establish interfaces for common services.
- B. Establish policies for the service design.
- C. Establish canonical data models.
- D. Establish runtime policies around services and SOA applications.

Question 22 – Objective 6 - Organization and Governance

Which two factors drive the need for SOA governance? Choose two.

- A. Local access to data.
- B. Distributed processes and services.
- C. Cross-organization involvement in service composition.
- D. Common Web service standards.

Question 23 – Objective 6 - Organization and Governance

Which is a consequence of an SOA built without sufficient governance?

- A. Developers CANNOT choose languages to develop services.
- B. Developers CANNOT access legacy systems.
- C. Developers CANNOT use WSDL to describe services.
- D. Developers CANNOT systematically discover existing services.

Question 24 - Objective 2 - Business Strategy and Process

Golf Supplies Incorporated (GSI) is a medium-sized retail company experiencing steady growth. Currently, as a new business need is identified, the GSI business operations team usually contracts with the internal IT department to build the appropriate application. The business team typically doesn't concern itself with the details of the application implementation, and the IT department doesn't typically examine carefully the business impact of the applications they create. Also, the GSI business team has a stated goal to make every effort that the applications requirements are stated clearly to the IT department, but this communication effort has sometimes failed. In such cases the IT staff often feels like blame unnecessarily falls on them,



for they claim that the application requirements handed down from the business team lack clarity and consistency.

A move to SOA could benefit GSI in which way primarily?

- A. Standard SOA documentation procedures have been tremendously successful in maximizing effective communication within an organization.
- B. SOA governance models facilitate guided and accountable interaction between all members of an organization, including the proper measures to encourage and even enforce compliancy. This should aid GSI in understanding where blame truly lies in event of failure.
- C. SOA should increase the mutual awareness and attentiveness of the IT staff and the business team to each other's needs and goals.
- D. SOA should enhance the productivity that comes from a clear separation of responsibilities in which each employee concentrates on their own strengths.

Question 25 - Objective 4 - Building Blocks

What are the three parts of a service? Choose three.

- A. Callback
- B. Contract
- C. Registry
- D. Interface
- E. Implementation

Question 26 - Objective 4 - Building Blocks

Which is true of Service-Oriented Development of Applications?

- A. Business Analysts create applications via service composition.
- B. Software Engineers create applications via service composition.
- C. SOA Architects create applications via service composition.
- D. End-users create applications via service composition.

Question 27 - Objective 4 - Building Blocks

Which two techniques for service candidate identification should be used in new application development? Choose two.

- A. Top Down
- B. Waterfall
- C. Cascade
- D. Bottom Up

Question 28 - Objective 4 - Building Blocks

Which describes the relationship between service scope and granularity in a SOA?

- A. Service access within a line of business is more fine-grained than intra-application service access.
- B. Service access within a line of business is more coarse-grained than enterprise-wide service access.
- C. Service access across multiple enterprises is more coarse-grained than line of business service access.

- E. Service access across multiple enterprises is more fine-grained than enterprise-wide service access.

Question 29 – Objective 7 - Costs and Benefits

Which are the two major factors preventing organizations from implementing SOA? Choose two.

- A. Lack of business justification.
- B. Lack of best practices.
- C. Technological impediments.
- D. Organizational barriers.

Question 30 – Objective 7 - Costs and Benefits

In which two ways do cost justifications for SOA projects differ from typical IT investments? Choose two.

- A. SOA has a wider impact.
- B. SOA technologies are less expensive.
- C. SOA project risks have multiple dimensions.
- D. SOA projects do not require additional technology investments.
- E. SOA cost models are straightforward.



Question 31 – Objective 7 - Costs and Benefits

If SOA increases the agility of an organization, where may the benefits appear? Choose two.

- A. Faster time to market for new products.
- B. Faster IT system problem resolution.
- C. More flexible IT staffing requirements.
- D. Simplified mergers and acquisitions.
- E. Reduced IT overhead.

Question 32 – Objective 7 - Costs and Benefits

Successful adoption of an SOA initiative may require which two organizational additions? Choose two.

- A. Services analysis group
- B. Steering board
- C. Services refactoring committee
- D. Services librarian



Question 33 – Objective 3 - Architecture

Deployed to a cluster of Solaris machines, a trouble ticket handling service is implemented in Perl and callable through SOAP over SMTP. This service has an SLA response time of 1.9 seconds, and guaranteed “Exactly Once” delivery assurance (WS-ReliableMessaging). A new version of this service is promised to yield a response time of 850 ms under an “At Least Once” delivery assurance.

Which logical part of the service is changing? Choose one below. (Make no assumptions other than the information given.)

- A. Interface
- B. Contract
- C. Implementation
- D. Governance

Question 34 – Objective 6 - Organization and Governance

What is the primary reason organizations fail to realize SOA benefits?

- A. Poor interface design.
- B. Lack of SOA governance.
- C. Tight coupling of services.
- D. Frequent SLA violations.

Question 35 - Objective 5 - Projects and Applications

Kidron Body Company, which makes refrigerated truck bodies, is assessing their current application functionality in consideration of a move to SOA. Some of the most important applications are responsible for the following functionality: maintaining the production schedule, employee work scheduling, and recording worker injuries with report generation capabilities. If SOA is adopted, this functionality should be implemented as services located in which layer?

- A. Infrastructure Services
- B. Intermediate Services
- C. Business Services
- D. Data Services
- E. Front-end Services

Question 36 - Objective 5 - Projects and Applications

Should every service be constructed as a Web Service? True or False.

Question 37 – Objective 3 - Architecture

Which two characteristics are associated with SOA architectures? Choose two.

- A. Business-centered
- B. Object-oriented
- C. Homogeneous technologies
- D. Message-oriented

Question 38– Objective 3 - Architecture

The Pedagogical Institute (PI) is a large retailer of audio and video recordings of instructor taught university level courses. They are establishing a Reference Architecture as part of their migration to SOA and are attempting to define both principles (firm) and guidelines (somewhat softer than firm) for all future development. Which three of the following should be recommended principles? Choose three.

- A. Data Services must not contain business logic.
- B. Business Services must access data through Data Services.
- C. Atomic software transactions must not span user web requests.
- D. Presentation Services must access data through Data Services.
- E. All portlets must be accessed via a standard WSRP mechanism.

Question 39 - Objective 5 - Projects and Applications

The technology roadmap to establishing an SOA can have a number of stages. These stages can include (1) Aggregate services adding business value, (2) Consolidate business functionality into services, (3) Share business data with multiple consumers, and (4) Orchestrate services into business processes. In which order should these four stages occur?

- A. 1, 2, 3, 4
- B. 2, 1, 3, 4
- C. 2, 1, 4, 3
- D. 3, 2, 1, 4
- E. 3, 2, 4, 1

Question 40 - Objective 4 - Building Blocks

Buckeye Pets provides a large variety of pet products, each with different pricing and ordering approaches, and each with different underlying technologies (some C++, some .NET, some Java). The corporation has various production plants for different products across the United States. A major business goal is to provide different product pricing and levels of service (SLA, etc.) based on the characteristics of the purchaser. How should the company's ordering and pricing services be categorized?

- A. By implementation technology
- B. By geographic location of plant
- C. By customer segment
- D. By message assurance levels
- E. By product discount

Answers -

- Question 1: Correct Answer = D
- Question 2: Correct Answer = D
- Question 3: Correct Answer = A
- Question 4: Correct Answer = B, C, D
- Question 5: Correct Answer = A
- Question 6: Correct Answer = B
- Question 7: Correct Answer = B
- Question 8: Correct Answer = C
- Question 9: Correct Answer = D
- Question 10: Correct Answer = A
- Question 11: Correct Answer = A
- Question 12: Correct Answer = E
- Question 13: Correct Answer = B, E
- Question 14: Correct Answer = B
- Question 15: Correct Answer = D
- Question 16: Correct Answer = A, B
- Question 17: Correct Answer = A
- Question 18: Correct Answer = A
- Question 19: Correct Answer = C
- Question 20: Correct Answer = E
- Question 21: Correct Answer = A, D
- Question 22: Correct Answer = B, C
- Question 23: Correct Answer = D
- Question 24: Correct Answer = C
- Question 25: Correct Answer = B, D, E
- Question 26: Correct Answer = A
- Question 27: Correct Answer = A, D
- Question 28: Correct Answer = C



- Question 29: Correct Answer = A,D
- Question 30: Correct Answer = A,C
- Question 31: Correct Answer = A, E
- Question 32: Correct Answer = B, D
- Question 33: Correct Answer = B
- Question 34: Correct Answer = B
- Question 35: Correct Answer = C
- Question 36: Correct Answer = False
- Question 37: Correct Answer = A,D
- Question 38: Correct Answer = A,B,C
- Question 39: Correct Answer = D
- Question 40: Correct Answer = C