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### **IBM Architecture design of soa solution**



**Practice Exam:** 000-665

**Exam Number/Code:** 000-665

**Exam Name:** Architecture design of soa solution

**Questions and Answers:** 59 Q&As

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Exam : IBM 000-665

Title : Architecture design of soa solution

1. An SOA solution has been architected to provide reservations capability for a leading travel agency and their business partners. Several design problems have emerged as service descriptions are defined. Which two of the following design guidelines are best to apply?

- A. Service interfaces must be compliant with WS-I best practices to maximize interoperability between service providers and consumers.
- B. Service interfaces must be versioned and contain no more than one operation.
- C. SOAP messages and SOAP headers are always included in WSDL descriptions.
- D. SCA modules must contain no more than one service import or export definition.
- E. Ideally, service implementations would be stateless to maximize availability and scalability of the operational infrastructure.

Answer: AE

2. The proposed design for a SOA solution only includes a number of low-level order database retrieval services. Will this approach lead to a successful SOA implementation?

- A. Yes, because the details of the Order database have been hidden from consumers.
- B. No, because database retrievals are not reusable business services.
- C. No, because tight coupling of data leads to unnecessary complexity over time.
- D. Yes, because SOA implementations are always more robust when data access services are included.

Answer: B

3. An SOA solution designer at a large trucking company has recognized the requirement for business logic that can be adapted quickly to market conditions. The SOA solution designer recommends IBM's SOA Reference

Architecture, but is concerned that a simple service approach may not be responsive enough. Which of the following additional steps is best to take?

- A. Use DB2 database tables to capture discount rates and maintenance costs so that business service logic can adapt automatically.
- B. Use Java Agile programming techniques to quickly develop and deploy new business logic when needed.
- C. Include IBM WebSphere Portal presentation logic to give customer service representatives better access to current discounts and offers.
- D. Add IBM WebSphere Process Server so that business rules capture sensitive business variables.

Answer: D

4. Which two of the following are objectives of an SOA assessment?

- A. Assess the architecture for service re-use potential and document observed gaps between existing components, services and infrastructure.
- B. Develop a holistic view of services aligned by the business portfolio of products and services.
- C. Identify required tools and methods for the transformation environment.
- D. Understanding the client's business and technical mandates.
- E. Identify and specify services and components.

Answer: AD

5. A leading car rental company has decided to expand to provide limousine and chauffeur services to clients. Through acquisition, the company now faces complex integration of multiple IT systems in order to achieve its business goals. How can IT technology standards facilitate that integration?

- A. Each IT system may expose key business functions as services that are compliant with service-related technology standards to facilitate interoperability.
- B. Web service standards must be introduced for clients to interact more cleanly with the expanded company. SOAP messages will facilitate enhanced customer service.
- C. Integration using a message hub will provide the necessary support for business goals.
- D. WS-Resource standards will provide the support needed to integrate the acquired IT systems and provide the foundation for further expansion.

Answer: A

6. Which of the following represents the best reason that an organizational assessment is important in an SOA project?

- A. Because an organization may have multiple IT departments.
- B. Because the IT department must change its development processes.
- C. Because SOA will impact processes that cross organizational boundaries.
- D. Because embracing SOA requires the enterprise to restructure its management.

Answer: C

7. An SOA solution designer is addressing non-functional requirements for an SOA project that has been suffering from performance issues. Which of the following should be included?

- A. Performance and platform
- B. Total-cost-of-ownership and quality
- C. Security and error handling
- D. Response time and scalability

Answer: D

8. As part of an SOA assessment, an architect is tasked with assessing the service infrastructure. Which of the following should the architect focus on?

- A. Services Management, Services Security, IT Standards, Operational Model
- B. Services business alignment, Services Security, Development Standards, Operational Model
- C. Services Management, Service Identification and Exposure, Web Services Technology, Operational Model
- D. Services business alignment, Services Security, Web Services Technology, Operational Model

Answer: C

9. A customer hires an SOA solution designer to design a User Interface(UI) component for their SOA-based application. The customer has a requirement that says that the UI component must be ready to be exposed as a Web Service. Which of the following is ideally suited to meet this requirement?

- A. UI using JSF
- B. UI using HTML
- C. UI using DHTML
- D. UI using Portlets

Answer: D

10. While SOA has broad business value, selecting the right project to get started is important. Which of the following business issues best aligns with an initial SOA project?

- A. Focusing on short term IT cost reduction
- B. Transforming a core, complex set of applications
- C. Automating a significant business process
- D. Breaking down strong organizational silos

Answer: C

11. SOA is certainly not the only choice for all projects and may be less than optimal for some situations. Which of the following best describes a customer environment where SOA might be applicable?

- A. A business that revolves around extremely high-volume, high-performance, synchronous, and real-time transactions.
- B. A homogeneous IT environment with single programming model, using common middleware
- C. A heterogeneous IT environment with a variety of programming models, tools and platforms
- D. A stable application environment with a small percentage of IT budget assigned to integration activities.

Answer: C

12. A company has challenged the SOA solution designer to articulate the ROI on the SOA investment. Which of the following propositions best reflects the realities of SOA engagements?

- A. Implementing SOA will reduce the work load of business analysts.
- B. SOA will quickly reduce the costs of help desk and maintenance.
- C. Once several applications have been implemented in SOA, the development staff needs will decline.
- D. The business agility realized from implementing common components will offset the initial investment.

Answer: D

13. An SOA design team is working on identifying a series of services that need to be enabled in their organizational SOA.

What would be a valid design consideration?

- A. Replace existing APIs (Application Programming Interfaces) with Web Services.
- B. Rewrite all existing applications as Web Services that can now be delivered as part of the organizational SOA.
- C. A number of existing applications can be combined together by wrapping techniques to be delivered as Web Services.
- D. Leverage business analysis and business modeling outputs to align services to be delivered with business functionality.

Answer: D

14. An SOA solution designer is conducting an SOA assessment of a customer portfolio. Which of the following topic areas is most relevant to include as a topic for the application assessment?

- A. Application security
- B. Level of componentization
- C. Required operating systems
- D. Versions of off-the-shelf applications

Answer: B

15. Compliance with government regulations remains at the top of many CEOs list of must have functions. One aspect of compliance is providing a clear audit trail of who did what and when. What SOA technique would most help realize this requirement?

- A. Decompose all business processes into a collection of services for agility and reuse.
- B. Maximize legacy reuse by wrapping existing transactions with services.
- C. Allow for service intermediaries through the use of an Enterprise Service Bus (ESB).
- D. Leverage open standards to represent software assets as services for maximum interoperability with external systems.

Answer: C

16. Which of the following statements best represents a case for an SOA?

- A. An enterprise wants to standardize CRUD data services for their geographically distributed databases.
- B. An online retailer is experiencing performance issues during the heavy shopping season.
- C. A business wants to reduce the time to market for new products and services by leveraging existing applications and improving collaboration from partners.
- D. An enterprise wants to standardize all data exchange using XML.

Answer: C

17. When would the application of the WS-Addressing specification NOT be relevant in a SOA solution?

- A. When Web service applications need to exchange potentially large text and binary data, including GIF and JPEG files.
- B. When Web service applications need to exchange messages using a publish/subscribe integration pattern.
- C. When Web service applications need to exchange messages among multiple endpoints through networks that include firewalls and gateways.
- D. When Web service providers must share their metadata with invoking clients.

Answer: D

18. A company's IT department has a number of legacy EIS systems which provide functionality in its different lines of business. As part of its SOA strategy, the company wants to reuse the existing capabilities of these legacy systems across lines of business. A pure bottom-up approach is used exclusively to design services based on the functionality of the existing systems. What is the most likely result of this service design approach?

- A. Application clients must use J2C adapters or JAX-RPC to access the resulting services.
- B. The resulting services are composed into business processes by the various lines of business.
- C. Some of the resulting service interfaces are too fine-grained to meet the reuse needs of the various lines of business.
- D. The resulting service interfaces expose a common data model.

Answer: C

19. As part of a SOA project, a company begins the process of service identification by using top-down analysis to identify and compose the flow of its relevant business processes and subprocesses.

Which of the following IBM SOA Foundation offerings is most appropriate to use for these activities?

- A. IBM WebSphere Business Modeler
- B. IBM Rational Method Composer
- C. IBM Rational Software Architect
- D. IBM Rational Application Developer

Answer: A

20. As part of its SOA strategy, a company has developed many business services that are internally and externally accessible via a service registry. How does reuse of the business services across its line of business processes most likely provide business value to the company?

- A. Leads to more consistent business processes and decreased business integration costs
- B. Leads to reduced development costs and reduced need for deployment infrastructure
- C. Leads to more innovative process implementations and increased IT budgets
- D. Leads to enhanced supplier integration and reduced need for additional partnerships

Answer: A

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