SUN

310-052

Sun Certified Enterprise Architect for J2EE 5

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A combination of ANSI SQL-99 syntax coupled with some company-specific extensions. Performance of queries is important to both the company's management and its customers. It has a team of 20 developers who are considered experts in the data warehouse. What is the optimal architecture to use when accessing the data warehouse?

A. Session beans using ORM  
B. Session beans using a JDBC connection pool  
C. Session beans using EJB 2.x CMP entity beans  
D. Session beans using EJB 2.x BMP entity beans with JPA  

Answer: B  

QUESTION: 228  
You are designing the next-generation purchase order processing system at your company. Although the presentation and business logic tiers will be designed and built using the Java platform, the existing relational database will be re-used, because its design has proven to be fast, scalable, and reliable. Ease and speed of development is an important consideration. What is the most appropriate server-side component to use when providing read-write access to the existing database schema in the new application?  

A. stateless session beans using JDBC directly  
B. Java Persistence API (JPA) accessed using a DAO layer  
C. message-driven beans using a JMS queue and a DAO layer  
D. stateful session beans coupled with a thread per concurrent request  
E. bean-managed persistence (BMP) entity beans accessed using a DAO layer  

Answer: B  

QUESTION: 229  
A company has defined an XML-based document format that its business partners need to use to submit order information. To guarantee confidentiality and information integrity at a fine level in the presence of multiple processing steps, the company wants to take advantage of technologies such as WS-Security and XML Digital Signatures. These technologies define SOAP headers that can be used to sign and encrypt fragments of documents. Your task is to implement the web service that accepts and processes the orders. Which component type should be used for the web service endpoint?


A. stateless session bean with RMI interface  
B. message-driven bean with web service interface  
C. stateful session bean with web service interface  
D. stateless session bean with access to the SOAP body  
E. stateless session bean with access to the SOAP envelope  

Answer: E

**QUESTION: 230**

You are the architect for an in-house application used by a consulting corporation to schedule internal resources to staff client engagements. The application will be used only by a well-defined user group (the in-house HR team) and so will not be exposed to large spikes in demand. Two phase commit semantics are not required, and the simple security model is addressed by integration with the company’s LDAP server at the presentation layer. The company does have a 36-month roadmap for their intranet which calls for incremental development of the application over time. What is the best solution for implementing the business logic tier?

A. JSPs accessing the database directly is sufficient.  
B. An MVC web framework with no persistence tier is sufficient.  
C. An MVC web framework accessing session beans to access the persistence tier is sufficient.  
D. Any standard web framework implementing the MVC model accessing the persistence tier is sufficient.  

Answer: D

**QUESTION: 231**

A company that sells avatar skins for virtual reality environments has hired an architect consultant to determine why their system runs slowly. The consultant finds that the business logic that processes orders has been embedded into all of their JSPs using scriptlets. During load testing, the responsiveness of the system is slow, but the CPU and VM-free memory utilization remain at a low level. Which two are most likely causes of the problem? (Choose two.)

A. User requests are deadlocked.  
B. The servlet instances are locked on every request.
C. The Java Virtual Machine is NOT configured properly.
D. Database connection pooling is NOT configured properly.

Answer: B, D

QUESTION: 232
A company is embarking on a major new initiative, the creation of an eCommerce, B2C (business to consumer) application to sell their widgets. As the lead architect, you need to decide whether or not to use EJBs in the business tier of the architecture. The architecture is as follows: JSP <-> Controller <-> Business logic <-> JPA-based persistence. Which option represents the optimal solution describing the business tier implementation?

A. Stateless session beans are required to update values in the database.
B. Entity beans are necessary to allow the controllers to access the JPA persistence layer.
C. Message-driven beans are required to decouple the controllers from the persistence tier.
D. Session beans are required in order to provide unit-of-work, security, and transaction management semantics to the JPA layer.

Answer: D

QUESTION: 233
A large enterprise employs numerous authors to produce content. The decision is made to use a content management system (CMS) to store the content, and its metadata, in a few relational databases. Multiple JSF-based web applications need to display the same data. What implementation strategy would have the most impact on increasing reuse?

A. Using web services to access the CMS
B. Using an object relational mapping technology
C. Using a service locator to find the relational databases
D. Using a component-oriented web application framework
E. Using a templating mechanism to composite view components

Answer: E

QUESTION: 234
A teenage fashion web site employs a dozen web designers skilled in graphic design, HTML, and some JavaScript experience. You were hired by the company to create an architecture that includes a small amount of dynamic content to integrate the web site with the company's order entry system. Which three web technologies would you train the web designers to use to create dynamic pages? (Choose three.)

A. theservlet API
B. JSP with standard tags
C. JSP with JSTL database tags
D. building new JSF components
E. standard JSF component tags
F. JSP with the Expression Language

**Answer:** B, E, F

**QUESTION:** 235
**DRAG DROP**

Click the Task button.

Answer:
**QUESTION:** 236
You are the architect on a project to build a bridge between the legacy customer service tool, an outdated VT100 terminal server, and a company's new Java EE web application. You do NOT have access to the terminal server and cannot deploy any code to it. Which approach should you use to integrate the systems?

A. Use a DAO wrapped around a JDBC connection to query the legacy system  
B. Deploy a CORBA server to the legacy system and use RMI-over-IIOP to communicate to it  
C. Develop a session bean that wraps a screen-scraping tool to interact with the legacy system  
D. Develop a web services-based service and use XML to communicate with the terminal server

**Answer:** C

**QUESTION:** 237
What are two characteristics of object-oriented design? (Choose two.)

A. scalability  
B. manageability  
C. encapsulation  
D. polymorphism
E. cross-cutting concerns

Answer: C, D

QUESTION: 238
DRAG DROP
Click the Task button.

Answer:
Match each security technique with the issue it addresses.

- Symmetric Encryption: Used for bulk encryption of data in an established channel
- SSL: Encapsulates protocol negotiation, key exchange, and communication
- Asymmetric Encryption: Establishes secure communication with previously unknown parties
- Digital Signatures: Can attest to a principal having been associated with data

**Security Techniques**

- Digital Signatures
- SSL
- Asymmetric Encryption
- Symmetric Encryption

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