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### ***SUN Sun Certified Enterprise Architect, Java, EE5 Upgrade Exam***



**Practice Exam:** 310-053

**Exam Number/Code:** 310-053

**Exam Name:** Sun Certified Enterprise Architect, Java, EE5 Upgrade Exam

**Questions and Answers:** 137 Q&As

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Exam : SUN 310-053

Title : Sun Certified Enterprise Architect, Java, EE5 Upgrade Exam

1. The current architecture of a fashion web site consists of one web server, three application servers, and a database. You, as the lead architect, recommend adding more web servers.

What are two valid justifications for the new architecture? (Choose two.)  
A. New web servers will decrease latency for I/O-bound requests.

B. Adding multiple web servers will have a positive impact on scalability.

C. Adding new web servers will increase the overall availability of the web site.  
D. New web servers will increase the number of user accounts that can be supported.

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Answer: BC

2. You are architecting a complex multi-tiered web application. Within each tier you have designed layers, the lowest being the hardware layer and the highest being the application layer.

Which statement is true?

A. Generally, a given layer in one tier of this application should be concerned with the technology used in the same layer of adjacent tiers.

B. To maximize separation of concerns, a given layer in a tier of this application should only have knowledge of the adjacent layer in that tier.

C. For any given tier, separation of concerns is fulfilled when a given layer in that tier knows or needs to know little or nothing of the layers below it.

D. If the layers in one tier of the application have been designed to achieve separation of concerns, then the remaining tiers also achieve separation of concerns by default.

Answer: B

3. A successful web application is used by over two hundred thousand users. Due to this substantial load, the database is overburdened and fails frequently. All data, including critical user records and temporary session data, are stored in the database. Because of resource constraints, a new database system cannot be installed.

Which change will reduce the load on the database?

A.create more entity beans to optimize the interaction with the database

B.refactor the web application to use DAOs to communicate with the database

C.refactor the web application to store temporary session data on the web servers

D.add more web servers to the web tier to distribute the load and reduce the number of transactions on the database

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Answer: C

4. With which two is the service-oriented architecture concerned? (Choose two.)

A.low cohesion

B.loose coupling

C.XML web services

D.stateful session handling

E.well-defined contracts

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Answer: BE

5. What describes the design relationship between session beans and entity beans?

A.aggregation

B.separation of concerns

C.common reuse principle

D.Liskov substitution principle

E.interface segregation principle

Answer: B

6. Which pattern exists primarily to separate concerns?

A.DAO

B.Transfer Object

C.Session Facade

D.Composite Entity

Answer: A

7. You are architecting the layers for a complex n-tier web application. Which two pairs of technologies do NOT exhibit direct dependencies? (Choose two.)

A.EJB to RMI

B.Linux to JDBC

C.HTML to Firefox

D.Tomcat to Servlets

E.SunFire E20k server to Java EEWArialZX

Answer: BE

8. You are architecting a document storage system for next season's fashion designs. The system must support many different encryption algorithms to secure those documents. Security of the documents is the highest priority of the system.

What are two valid concerns in this situation? (Choose two.)

A.The most scalable solution is to use public key encryption for all encryption.

B.The system software must be able to be updated without decrypting all the files in the system.

C.A single API should be used for all encryption algorithms allowing them to be used interchangeably.

D.Each encryption algorithm should be deployed to its own server to keep deployment and configuration simple.

E. Documents in the system can be stored unencrypted if the storage servers are properly secured behind a firewall and DMZ.

Answer: BC

9. In which two ways does the Value List Handler pattern support separation of concerns? (Choose two.)

- A. It centralizes business logic and state.
- B. It encapsulates access to business services.
- C. It uses DAOs to encapsulate access to persistence.
- D. It helps focus list management logic in the business tier.

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Answer: CD

10. With the release of a new product line, there has been a significant increase in the volume of transactions on your web site. You need to scale your application and manage session failover.

What is the best option for scalability?

- A. add additional web servers and application servers
- B. introduce a High Availability pair and utilize sticky sessions
- C. add additional application servers and implement DNS round robin
- D. add additional application servers and use clustered HttpSession

Answer: D

11. You are the architect of a project that will provide an external, low latency, scalable, and highly-available service for handling string translations. Each request consists of a short string ID and a language key, limited to "EN", "FR", "ES", "DE" and "JP". Each response is a simple unicode string averaging 256 bytes in size, and there will be no more than 50,000 records for each language. All the records have already been translated and changes to the records will be rare.

What should you do to ensure that your service will scale and perform well as new clients are added?

- A. store all the records in an LDAP server and use JNDI to access them from the web tier
- B. deploy a standard 3-tier solution that is supported by a fast and reliable relational database
- C. deploy a single service on many servers in the web tier, each storing all the records in memory
- D. store all of the records in a network attached file system so they can be served directly from the file system

Answer: C

12. SOAP was selected as an integration technology for the flexibility of messaging styles it supports (in particular, how an XML payload can be presented in a SOAP message).

Which message-style statement is correct?

- A. The body of an RPC-style SOAP message cannot be a literal message.
- B. The XML payload for a document-style message cannot be an encoded message.
- C. The XML payload for RPC and document-style messages guarantee XML payload delivery.
- D. An RPC-style message has the XML payload wrapped inside an operation element in a SOAP body.

Answer: D

13. You are building a subsystem that has several complex components, but you want to hide that complexity from the client code.

Which pattern can you apply to hide this complexity?

- A. Proxy
- B. Bridge
- C. Adaptor
- D. Facade
- E. Decorator

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Answer: D

14. Your company is considering migrating a persistence module implemented using CMP entity beans to JPA.

Which two statements are true? (Choose two.)

- A. Each CMP entity bean can be mapped to a single JPA entity class.
- B. The client code that accesses the CMP entity beans does not have to change.
- C. JPA cannot capture all the kinds of relationships supported by CMP entity beans.
- D. The resulting JPA persistence module can be used on both the client and the server.
- E. The JNDI name of a JPA entity class can be customized to match that of the corresponding CMP entity bean.
- F. Remote clients of the CMP entity beans must start using web services to access the JPA entity classes on the server.

Answer: AD

15. Security restrictions in a use-case require that the behavior of an EJB business method vary according to the role of the user. How should this be achieved?

- A. The deployment descriptor is written using the roles determined by the programmer.
- B. The programmer determines a role reference and uses it in the code. This is mapped to a role in the deployment descriptor.
- C. The business method determines the role of the user using JNDI and configuration information in the deployment descriptor.
- D. The business method determines the role of the user using JAAS and configuration information in the deployment descriptor.

Answer: B

16. What is a major design characteristic of the Service To Worker pattern?

- A. control of transactions
- B. separation of concerns
- C. control of network traffic
- D. integration of legacy systems

Answer: B

17. A company has a legacy system that it is going to use Java EE technology to re-engineer. The legacy solution consists of active server pages and a relational database. The company is interested in changing DB vendors in the future and this requirement is key to moving forward. This is a web-based transactional sales system. The company will keep the relational database schema because it still meets business requirements and will not require re-engineering.

What is the best solution?

- A. JSP, JDBC only
- B. JSP, servlets, JDBC only
- C. JSF, servlets, JPA, EJB3
- D. JSF, servlets, DAO, JDBC

Answer: C

18. As a project architect, you are selecting technologies for a complex, n-tier web application's virtual platform. At this stage in the project, which two technologies should be of primary consideration? (Choose two.)

- A. RMI
- B. Linux
- C. JDBC
- D. Firefox
- E. Tomcat
- F. WArrialZX

Answer: AC

19. What are two advantages of using encapsulation in a multi-tier architecture? (Choose two.)

- A. Business components inherit behavior from the web container.

- B. Complex web container behavior can be hidden behind simple interfaces.
- C. Business logic can be modified without modifying objects that depend on it.
- D. Database records can be accessed directly from the web tier to improve scalability and performance.

Answer: BC

20. A mortgage company is building a system that allows customers to apply for a mortgage using a web application. A mortgage typically takes several days to process, so the customers receive results through an email message. When a customer completes the mortgage form, the customer must click the Submit button. When the Submit button is clicked, the application sends the mortgage data to an external system for processing and displays a JSP indicating that the application has been accepted. Because the company's core business is mortgages, the architecture must guarantee the delivery of mortgage data between the web application and the external processing system.

In this situation, which technology should the web application use to send the mortgage data to the external processing system?

- A. a JMS queue
- B. XML over HTTP
- C. a synchronous web service
- D. an asynchronous web service

Answer: A

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