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Version: Demo

QUESTION 1
Your company requires all its developers to use a well-specified set of exception classes to model several common error conditions, many of the which are specific to its business. These exception classes are centrally maintained and come packaged in a library (a JAR file). The application you are developing needs to report a number of error conditions covered by this library to remote clients.

Which paring of component type and remote access technology enables client applications to use the predefined exceptions as part of their natural programming model?

A. Servlet accessed using HTTP
B. Entity bean accessed using web services
C. Stateless session bean accessed using Remote Method Invocation (RMI)
D. Message-driven bean accessed using Java Message Service (JMS) queue

Correct Answer: C

QUESTION 2
An investment company has purchased a number of small online business referral systems that appeal to various niche demographics. The company wants to bring these networks together in hopes of finding a broad, single theme and brand image for these groups before they can do that, they need to get the users communicating with outside their current networks.

Which Web Services pattern would you recommend they consider in building a scheme to accommodate this communication?

A. Asynchronous Interactions
B. PAOS Interactions
C. Web Services Broker
D. JMS Bridge

Correct Answer: A

QUESTION 3
A Hot Potato anti pattern can arise from misuse of which technology combination?

A. Bean Validation with JSF Managed Beans
B. Messaging in the Business Tier
C. JNDI Lookups with Global Java Naming
D. JPA with the Web Tier

Correct Answer: B

QUESTION 4
You are the architect of an existing project. Making changes to one component frequently requires making changes to many other components.

Which action would reduce future maintenance costs?

A. Redesign the configuration and deployment.
B. Add an abstraction layer between the servlets and the EJB components.
C. Convert all stateful EJB components to stateless EJB components.
D. Expose the existing EJB components as web services.

Correct Answer: B

QUESTION 5
Your consulting company has been asked to enhance an existing application. The current application is a

two-tier system in which all the business logic is located in thick clients. You are considering a solution that would involve moving the business logic into the server's database In the form of stored procedures.

Which statement is an expected outcome of your proposed solution?

A. It will improve the scalability of the system.
B. It will improve the manageability of the system.
C. It will recline the amount of traffic on the network.
D. It will, in effect, turn the application into a three-tier system.

Correct Answer: B

QUESTION 6
A company manufactures widgets for sale to distribution. Distributors call this company when they want to order more widgets. The company wants the distributors to send orders using XML documents over the Internet to reduce the number of data entry personnel needed. It has no control over the distributors technologies. The company does not want the Orders to impact the performance of other users. You have been assigned the task of designing a new API.

Which method do you use?

A. Design the API as a Java Message Service (JMS) queue.
B. Design the API as an Remote Method Invocation (RMI) interface.
C. Design the API as a synchronous web service.
D. Design the API as an asynchronous web service.

Correct Answer: D

QUESTION 7
You have been recruited by an online retailer of footwear to conduct a review of their online systems. Your primary Finding is that the development team has implemented duplicated complex business logic as Java scripts directly into the JSPs, causing performance, scalability, and maintainability issues.

Which two design patterns would you select to improve the current code base?

A. View Helper
B. From Controller
C. Composite View
D. Service-to-Worker
E. Business Delegate

Correct Answer: BD

QUESTION 8
A successful web application is used by over two hundred thousand users. Due to this substantial load, the database is over bridged and fails frequently. All data, included critical user records and temporary session data, is 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. Creating more entity beans to optimize interaction wild the database
B. Refactoring the web application to use DAOs to communicate with the database
C. Refactoring the web application to store temporary session data on the web servers
D. Adding more web servers to the web tier to distribute the load and reduce the number of transactions on the database.

Correct Answer: C

QUESTION 9
MedLabML is a startup firm that moves patient data between different care providers to provide a "single patient view". They use a B2B system to exchange electronic business document with their key suppliers. They are seeking your advice about standards to review for improving their message-level security.

Which standard or API would you recommend they read?

A. SAML 1.1
B. Web Service Interoperability Technology
C. XML Signature
D. SSL

Correct Answer: B

QUESTION 10
You have been tasked with improving the availability of an existing three tier application.

What is your first stop in evaluating what changes should be made to the architecture to achieve the goal?

A. Monitor network traffic between tiers.
B. Separate presentation from business logic.
C. Identify and document all single points of failure.
D. Cluster the presentation tier without session replication.

Correct Answer: C

QUESTION 11
While analyzing an existing web application, you observe the following issues in the source code:
▪ Duplicate control code is scattered throughout various view.
▪ Business and presentation logic are mixed within these view.

The next phase of the project involves refactoring the existing code to address these two issues.

Which design pattern, if employed in the refactoring exercise, would most directly address the two issues?

A. Service to Worker
B. Dispatcher view
C. DAO
D. Composite View

Correct Answer: A

QUESTION 12
You are using an open source integration framework in your project. However, key interfaces do not explicitly define several strange conditions you have repeatedly seen while testing.

Which option is the name given to the anti pattern described above?

A. Composite View
B. Leaky Abstraction
C. Asynchronous Interaction
D. Golden Hammer

Correct Answer: B

QUESTION 13
Which two statements are true about security strategies at the message level?

A. Messages are secured during transport and after arrival at their destination

B. Each portion of a compound message is secured.
C. SSL is required to ensure authenticity, integrity, and confidentiality.
D. Message attachments are secured without the need for a dedicated API.
E. Security is dependent on the application environment or the transport protocol.

Correct Answer: AD

QUESTION 14
Which two features are supported by the Java Authentication and Authorization Service (JAAS) API?

A. Single sign on
B. Secure network connections
C. Configurable access control policies
D. Web services security
E. Message encryption and key generation

Correct Answer: AC

QUESTION 15
Your development team wants to use Google Guice. A previous architect assigned this request a low priority, citing the complexity of integration and no compelling benefits statements from the requesting team.

The team claims that their colleagues have achieved the integration using a pattern. This pattern reduced the level of difficulty and risk and did not require vendor support.

Which pattern fits this description?

A. Context Holder
B. Service Starter
C. Dependency Injection Extender
D. Bean Locator

Correct Answer: C

QUESTION 16
Which statements are true about Java integration technologies?

A. Remote Method Invocation (RMI) helps to connect subsystems in a loosely coupled manner.
B. Java Message Service (JMS) helps in synchronous messaging between Java and non-Java systems.
C. JMS helps to broadcast messages to multiple Java-based receivers.
D. Java Connector Architecture (JCA) helps to integrate with heterogeneous legacy enterprise information systems.

Correct Answer: C

QUESTION 17
A travel company re-architects its application from a two-tier to a three-tier architecture. To see what impact the new architecture has on its non-functional requirements (NFR), the company intends to build a prototype based on the new architecture.

The company compares the NFR metrics associated with the new prototype against the metrics from their original two-tier solution.

Which option is an advantage of the original two-tier solution?

A. It has better availability because it has fewer single points of failure.
B. It has better manageability because each client has its own copy of the application.

C. It has better performance because each client must use its own set of domain objects.

D. It has better scalability because each client can access the database independently of other clients.

Correct Answer: A

QUESTION 18
Which two statements describe the contact between an Enterprise JavaBeans (EJB) container and the EJBs that it hosts?

A. The container provides automatic logging of all exceptions and errors generated by EJB code.

B. The container provides a transparent scaling mechanism to handle spikes in demand.

C. An EJB can extend its services, such as security, to improve performance.

D. The container has a well defined lifecycle model for each EJB type.

Correct Answer: BD

QUESTION 19
What are two consequences of using the Composite View pattern?

A. Improves performance

B. Avoids duplicate content

C. Forces a whole-part dependency

D. Allows tables to be reused in multiple locations

E. Restricts all sub views to have a consistent view technology

Correct Answer: BD

QUESTION 20
Which option 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

Correct Answer: B

QUESTION 21
Which three web applications work best when they are designed to be server-push enabled?

A. A news feed used for providing users with frequently updated news content

B. A web chat that allows users to communicate using easily accessible web interfaces

C. A live sporting event application, used to deliver current results during matches

D. An auction system that provides users with live online bidding

E. A graphics rendering application that generates visuals in an orderly fashion

Correct Answer: BCD

QUESTION 22
A manufacturing company has a large investment in a legacy Inventory Management System (IMS) developed with third-party technologies. You have been asked to design a Java EE application that interacts with it.

You would like to ensure the following:
▪ Minimal application code is required to parse the communication messages.
▪ Communication is asynchronous and stateless.
▪ Performance import of the existing system is minimal.

Which two technologies combined would meet these requirements?

A. XML
B. JSON
C. RMI
D. JAX-RS
E. JAX-WS

Correct Answer: BD

QUESTION 23
Which is an objective of the Strategy pattern?

A. To provide a way to configure a class with one of many behaviors
B. To define an object that encapsulates how a set of objects interacts
C. To define the skeleton of an algorithm, deferring some steps to subclasses
D. To decouple an abstraction horn its implementation so that the two can vary independently
E. To define a family of algorithms, encapsulate each one, and make them interchangeable
F. To allow subclasses to redefine certain steps of an algorithm without changing the algorithm's structure

Correct Answer: A

QUESTION 24
You need to restrict access to the administration screens in your website. Which two techniques test a user's permissions before granting access to a particular screen?

A. Enterprise JavaBeans (EJB) entity
B. Servlet filter
C. Custom tag library
D. Deployment descriptor
E. Custom JavaScript in JSP

Correct Answer: BD

QUESTION 25
A company is extending is successful social networking site to support the following channels:
instant messaging (IM), email messaging and text messaging/SMS. At present, the site has scaled 400%
in one year using a standard MVC Web framework the application experiences large
surges or spikes in demand and also periods of inactivity. Notification delivery to the three channels does
not need to be guaranteed.

Which solutions extends the current architecture and best meets the company's requirements?

A. Send the notification inline, that is, within the normal HTTP request-response cycle.
B. Place messaging on a Java messaging Service (JMS) queue and use message-driven beans (MDBs) to create and send notifications.
C. Insert the messages into a database and use plain old Java Objects (POJOs) to read the messaging using JDBC and send notifications.
D. Insert the messages into a database and use entity beans to read the messages using JDBC and send notifications.

Correct Answer: B

QUESTION 26
A company must honor a service-level agreement (SLA) for its application, which states all database requests must execute within three seconds.

Users complain that some requests take longer than five seconds to complete. You have been contracted to fix the problem.

Which course of action do you recommend?

A. Modify the program to implement multi threading and an event-driven design.
B. Add servers to distribute the load.
C. Upgrade the application server and the operating system.
D. Define a plan for isolating the bottleneck, and define indicators that will measure performance under a test load.

Correct Answer: D

QUESTION 27
Your CMC wants to move several web based search applications to an AJAX model, hoping to improve user engagement with a browser experience that feels smaller and more responsive.

Which identifies a drawback to consider when adopting an AJAX model to improve user experience?

A. Maintaining current performance could require more hardware.
B. Maintaining accessibility across clients may require more development.
C. Maintaining security within the page could be more difficult.
D. Maintaining page navigability for users would have to be re-evaluated.
E. Maintaining a scalable system could require redesigning applications.

Correct Answer: C

QUESTION 28
A company has been soiling a desktop based billing application that has Character User Interface (CUI) application developed by using Java. The company would like to release the next version of this application with the following features: a GUI with a pluggable look- and-feel capability and the flexibility to support multiple database vendors.

Which two technologies would you use in the new version?

A. Swing
B. JDBC
C. JPA
D. CMP
E. AWT

Correct Answer: AB

QUESTION 29
An online library wants to introduce a feature where an email notification is generated whenever a book becomes available for circulation. This notification must be sent to only those members who have expressed interest in that book.

Which design pattern would you use to implement this requirement?

A. Observer
B. Payload Extractor
C. Asynchronous Resource Integrator
D. Web Service Broker
E. Service Starter

Correct Answer: A

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