

Java/J2EE Interview Questions(255 Questions)

We are providing the complete set of **Java Interview Questions** to the Java/J2EE Developers, which occurs frequently in the interview.

Java:-

- 1)What is static variable.
- 2)What is transient variable.
- 3)What is final variable.
- 4)What is final method.
- 5)What is native method.
- 6)What is abstract method
- 7)What is innerclass.
- 8)What is static class.
- 9)What is final class.
- 10)What is anonymous class.
- 11)What is casting.
- 12)What are wrapper classes.
- 13)What is Singleton class.
- 14)What is JVM.
- 15)What is JNI.
- 16)What is JAR file.
- 17)What is garbage collection.
- 18)What is Socket. How will you create a connection.
- 19)What is ServerSocket. How will you create a connection.
- 20)What is DatagramSocket.How will you create a connection.
- 21)What is Synchronisation in threads.
- 22)What is Collection.
- 23)What is JavaMail.
- 24)What is Serialization and Deserialization.
- 25)What is the life cycle of an applet.
- 26)What is Reflection. Uses of Reflection.
- 27)What is the purpose of finalisation.
- 28)What is the functionality of try, catch and finally blocks (*)
- 29)What is the difference between Abstract class and Interface. (*)
- 30)What is the difference between overloading and overriding.
- 31)What is the difference between HashMap and Hashtable. (*)
- 32)What is the difference between Vector, Array and ArrayList. (*)
- 33)What is the difference between final, finally and finalized. (*)
- 34)What is the difference between String and StringBuffer. (*)
- 35)What is the difference between exception and error.
- 36)What is the difference between List, Set and Map. (*)
- 37)What is the difference between Observable and Observer.
- 38)What is the difference between Eventlistener and Eventadapter.
- 39)What is the difference between Classpath and Import.
- 40)What is the difference between Iterator and Enumeration.
- 41)What is the difference between Comparable and Comparator.
- 42)What is the difference between applet and application.
- 43)What is the difference between applet and swing.
- 44)What is the difference between HashMap and TreeMap. (*)

- 45)What is the difference between wait(), join(), sleep(), notify() & notifyall() methods. (*)
- 46)What is the difference between Reader/Writer classes.
- 47)What is the difference between InputStream/OutputStream classes.
- 48)What is the difference between File and RandomFileAccess classes.
- 49)What is the difference between paint() and repaint() methods.
- 50)What is the difference between yielding and sleeping.
- 51)What is the difference between preemptive scheduling and time slicing.
- 52)What is the difference between static and non-static variables.
- 53)What is the difference between Delegation event model and Inheritance event model.
- 54)What are the various access modifiers in Java. Differences between them. (*)
- 55)What are the various ways of creating a thread. What is difference between them. (*)
- 56)What are the various Collection classes available. (*)
- 57)What are the various layouts available. What is the difference between them.
- 58)Which Collection class is used for FIFO in Java.
- 59)Which Collection class is used for LIFO in Java.
- 60)When should i used notify() and notifyall() methods on threads.
- 61)Can the abstract class be final.
- 62)What is the command to know which version of java you are using.
- 63)Can we add Hashtable/HashMap to a vector.
- 64)How do you handle events in Java.
- 65)What is class loader.
- 66)What is the difference between function synchronization and object synchronization.
- 67)What is the difference between .equals and ==

JDBC:

- 1)What is a transaction. (*)
- 2)What is the purpose of setAutoCommit(). (*)
- 3)What are the three statements in JDBC & differences between them. (*)
- 4)What is stored procedure. How do you create stored procedure. (*)
- 5)What are batch updates.
- 6)What is the difference between Resultset and Rowset.
- 7)What are the steps for connecting to the database using JDBC. (*)
- 8)What is Connection Pooling. (*)
- 9)How do you implement Connection Pooling. (*)
- 10)What Class.forName() method will do.
- 11)What is the difference between JDBC 1.0 and JDBC 2.0

JSP:

- 1)What is JSP. (*)
- 2)What are advantages of JSP.
- 3)What is the difference between include directive & jsp:include action. (*)
- 4)What are Custom tags. Why do you need Custom tags. How do you create Custom tag. (*)
- 5)What are the implicit objects in JSP & differences between them. (*)
- 6)What is jsp:usebean. What are the scope attributes & difference betw. these attributes. (*)
- 7)What is difference between scriptlet and expression.
- 8)What is Declaration.
- 9)How do you connect to the database from JSP.

- 10)How do you call stored procedures from JSP.
- 11)How do you restrict page errors display in the JSP page.
- 12)How do you pass control from one JSP page to another.

Servlets:

- 1)What are Servlets.
- 2)What are the advantages of Servlet.
- 3)What is the Life cycle of Servlet. (*)
- 4)What is the difference between Servlet and JSP. (*)
- 5)What is the difference between doGet() and doPost() methods. (*)
- 6)What is Session Tracking. (*)
- 7)What are the various ways for achieving SessionTracking in Servlets. How do you implement.
- 8)What is Requestdispatcher. (*)
- 9)What is the difference between include() and forward() methods. (*)
- 10)What is the difference betw. sendRedirect() & forward() method. (*)
- 11)What is filter. Why do we need filter.
- 12)What is HttpSessionBindingListener and what are the methods available in it.
- 13)What is ServletContext.
- 14)How do you pass values from Servlet to a JSP. (*)
- 15)How do you pass values from HTML page to Servlet.
- 16)How do you pass control from one Servlet to other Servlet/JSP. (*)
- 17)What is the difference between Servlet and CGI.
- 18)How do you implement SingleThreadModel in Servlets.
- 19)What is the difference between HttpServlet and GenericServlet.
- 20)How can i access a configuration or log.properties file(stored under WEB-INF) in a web application.

EJB:- (All questions are important)

- 1)What is the difference between normal Java object and EJB.
- 2)What is the difference between JavaBean and EJB.
- 3)What is EJB.
- 4)What is Session Bean. What are the various types of Session Bean.
- 5)What is the difference between Stateful session bean and Stateless session bean.
- 6)What is the life cycle of Stateful session bean.
- 7)What is the life cycle of Stateless session bean.
- 8)What are the call back methods in Session bean.
- 9)When you will chose Stateful session bean and Stateless session bean.
- 10)What is Entity Bean. What are the various types of Entity Bean.
- 11)What is the difference between CMP and BMP.
- 12)What is the lifecycle of Entity Bean.
- 13)What are the call back methods in Entity bean.
- 14)When you will chose CMP and BMP.
- 15)What are advantages and disadvantages of CMP and BMP.
- 16)What is difference between EJB 1.1 and EJB 2.0
- 17)What is Message Driven Bean.
- 18)What is the life cycle of MDB.
- 19)What is local interface. How values will be passed.
- 20)What is the difference between local interface and remote interface.
- 21)What is EJB Query Language.
- 22)What is ACID.
- 23)What are the various isolation levels in a transaction and differences between them.

- 24)What are the various transaction attributes and differences between them.
- 25)What is the difference between activation and passivation.
- 26)What is Instance pooling.
- 27)What is EJB architecture(components).
- 28)What is the difference between HttpSession and Stateful Session Bean.
- 29)How do you check whether the session is active in Stateful session bean.
- 30)What is the difference between find and select methods in EJB.
- 31)What are the optional clauses in EJB QL.
- 32)What is handle in EJB.
- 33)What is the difference between JNDI context, Initial context, session context and ejb context.
- 34)What is the difference between sessioncontext and entitycontext.
- 35)What is the difference between EAR, JAR and WAR file.
- 36)What is deployment descriptor.
- 37)What is CMR.
- 38)What is the difference between CMP 1.1 and CMP 2.0
- 39)What is the difference between optimistic locking and pessimistic locking.
- 40)What is lazy loading.
- 41)What are the services provided by container.
- 42)How will you propagate exception thrown inside session bean to JSP or Servlet client.
- 43)If session has thrown ApplicationException would you use EJBContext.setRollBackOnly method.
- 44)Is Decorator an EJB design pattern.
- 45)Why are ejbActivate() and ejbPassivate() included for stateless session bean even though they are never required as it is nonconversational bean.
- 46)If i throw a custom ApplicationException from a business method in Entity bean which is participating in a transaction, would the transaction be rolled back by container. Does container rolls back transaction only in case of SystemExceptions.
- 47)Can i map more than one table in a CMP.
- 48)How can i retrieve from inside my Bean(Stateless session and Entity CMP) the user name which i am serving (the user name of user just logged in my web application).
- 49)What are simple rules that a Primary key class has to follow.
- 50)How is Stateful Session bean maintain their states with client.
- 51)Is it possible to invoke multiple Session beans from one Session bean using Reflection.
- 52)With EJB 1.1 specs, why is unsetSessionContext() not provided in Session Beans, like unsetEntityContext() in Entity Beans.
- 53)What is the difference between ejbStore() and ejbLoad().
- 54)If my session bean with single method insert record into 2 entity beans, how can know that the process is done in same transaction (the attributes for these beans are Required).
- 55)Is there a way to get the original exception object from inside a nested or wrapped Exception (for example an EJBException or RemoteException).
- 56)Is it possible to share an HttpSession between a JSP and EJB. What happens when I change a value in the HttpSession from inside an EJB.
- 57)What is clustering. What are the different algorithms used for clustering.
- 58)How to implement an entity bean which the PrimaryKey is an autonumeric.
- 59)How many EJB Objects are created for a Bean.
- 60)What is abstract schema.
- 61)What is the difference between ejbCreate() and ejbPostCreate().
- 62)What is re-entrant. Is session beans reentrant. Is entity beans reentrant.

- 63) Why does EJB need two interfaces (Home and Remote Interface)?
- 64) Is stateless Session bean create() method contains any parameters?
- 65) Can I develop an Entity Bean without implementing the create() method in the home interface?
- 66) Why an onMessage call in Message-driven bean is always a separate transaction?
- 67) Does Stateful Session bean support instance pooling?
- 68) Can I invoke Runtime.gc() in an EJB?
- 69) Can a Session Bean be defined without ejbCreate() method?

XML:-

- 1) What is the difference between SAX parser and DOM parser. (*)
- 2) What is the difference between Schema and DTD. (*)
- 3) How do you parse/validate the XML document. (*)
- 4) What is XML Namespace.
- 5) What is Xpath.
- 6) What is XML template.
- 7) How would you produce PDF output using XSL's.
- 8) What are the steps to transform XML into HTML using XSL.
- 9) What is XSL.
- 10) What is XSLT.

JMS:-

- 1) What is JMS.
- 2) What is the difference between queue and topic. (*)
- 3) What is the difference between Point to Point and Publish/Subscribe Messaging Domains. (*)
- 4) What is Producer, Consumer.
- 5) What is the difference between Message producer and Message consumer.

Struts:- (All questions are important)

- 1) What is Struts.
- 2) What is the difference between Struts 1.0 and Struts 1.1
- 3) Explain Struts navigation flow.
- 4) What is the difference between ActionForm and DynaActionForm.
- 5) What is DispatchAction.
- 6) How to call ejb from Struts.
- 7) What are the various Struts tag libraries.
- 8) What is the difference between ActionErrors and ActionMessages.
- 9) How you will handle errors and exceptions using Struts.
- 10) How you will save the data across diff. pages for a particular client request using Struts.
- 11) What we will define in Struts-config.xml file. And explain their purpose.
- 12) What is the purpose of tiles-def.xml file, resourcebundle.properties file, validation.xml file.
- 13) What is Action Class. What are the methods in Action class.
- 14) Explain about token feature in Struts.

Websphere and Weblogic:- (All questions are important)

- 1) What are the steps for deploying servlets and EJB's in Weblogic.
- 2) What are the steps for deploying servlets and EJB's in Websphere.
- 3) What is Hot Deployment in Weblogic.

- 4)How do you implement connection pooling in Websphere.
- 5)How do you implement connection pooling in Weblogic.

Oracle:-

- 1)What is the stored procedure. How do you create stored procedure. (*)
- 2)What is difference between Outerjoin and Innerjoin. (*)
- 3)What is bind variable. What is the use of it.(*)
- 4)What are triggers.
- 5)What is the difference between function and procedure. (*)
- 6)What is database schema. How do you create schema. (*)
- 7)What is cursor.
- 8)What is package.

J2EE:-

- 1)What is J2EE.
- 2)What are the tiers in J2EE architecture. (*)
- 3)What are the modules in a J2EE application. (*)
- 4)What are the different XML files used in J2EE.

Design Patterns:-

- 1)What is Design pattern.
- 2)What is Singleton pattern. Example. (*)
- 3)What is Value Object pattern. (*)
- 4)What is MVC. (*)
- 5)What is Session facade pattern. (*)
- 6)What is Business delegate apttern.
- 7)What is Data access object pattern.
- 8)What is decorator pattern.
- 9)What is Factory pattern. (*)
- 10)What is Service Locator pattern.

OOAD:

- 1)What is polymorphism. (*)
- 2)What is inheritance. (*)
- 3)What is encapsulation.
- 4)What is abstraction.

UML and Rational Rose:

- 1)What is UML. (*)
- 2)What is difference between aggregation and composition. (*)
- 3)What is association. (*)
- 4)What is generalization.
- 5)What are the various UML diagrams.
- 6)What is the difference between class diagram & sequence diagram. (*)
- 7)How do you differentiate(in terms of symbolic representation) public, private and protected variables in UML diagram. (*)

RUP:

- 1)What is RUP. (*)
- 2)What is a Usecase.
- 3)What are the various phases in RUP. Explain each phase. (*)

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XP:

- 1)What is XP.
- 2)What is the difference between XP and RUP.