

500 Java Technical Questions

1. What are the four corner stones of OOP ?

Abstraction, Encapsulation, Polymorphism and Inheritance.

2. What do you understand by private, protected and public ?

These are accessibility modifiers. Private is the most restrictive, while public is the least restrictive. There is no real difference between protected and the default type (also known as package protected) within the context of the same package, however the protected keyword allows visibility to a derived class in a different package.

3. Difference between a Class and an Object ?

A class is a definition or prototype whereas an object is an instance or living representation of the prototype.

4. What is Downcasting ?

Downcasting is the casting from a general to a more specific type, i.e. casting down the hierarchy.

5. What is Polymorphism ? What kinds ?

6. What is the difference between method overriding and overloading?

Overriding is a method with the same name and arguments as in a parent, whereas overloading is the same method name but different arguments.

7. What is the restriction on an Overridden methods' accessibility ?

Overriding methods cannot reduce accessibility - they can either have same or greater accessibility.

8. What is the concept of a Virtual Function ?

9. What is the implication of a Virtual Destructor ? Virtual Constructor ?

10. Can a method be overloaded based on different return type but same argument type ?

No, because the methods can be called without using their return type in which case there is ambiguity for the compiler.

11. What is a "stateless" protocol ?

Without getting into lengthy debates, it is generally accepted that protocols like HTTP are stateless i.e. there is no retention of state between a transaction which is a single request response combination.

12. What happens to a static var that is defined within a method of a class ?

Can't do it. You'll get a compilation error.

13. What is constructor chaining and how is it achieved in Java ?

A child object constructor always first needs to construct its parent (which in turn calls its

parent constructor.). In Java it is done via an implicit call to the no-args constructor as the first statement.

14. How do you define a local inner class ?

15. How many static init can you have ?

As many as you want, but the static initializers and class variable initializers are executed in textual order and may not refer to class variables declared in the class whose declarations appear textually after the use, even though these class variables are in scope.

16. What is passed by ref and what by value ?

All Java method arguments are passed by value. However, Java does manipulate objects by reference, and all object variables themselves are references.

17. How do you ensure size of a primitive data type ?

You can't.

18. Describe the Garbage Collection process in Java ?

The JVM spec mandates automatic garbage collection outside of the programmers control. The System.gc() or Runtime.gc() is merely a suggestion to the JVM to run the

GC process but is NOT guaranteed.

19. What is the difference amongst JVM Spec, JVM Implementation, JVM Runtime ?

The JVM spec is the blueprint for the JVM generated and owned by Sun. The JVM implementation is the actual implementation of the spec by a vendor and the JVM runtime is the actual running instance of a JVM implementation.

20. Can RMI and Corba based applications interact ?

Yes they can. RMI is available with IIOP as the transport protocol instead of JRMP

21. What is the difference between an Abstract class and Interface ?

Ans) Interface defines the methods. There is no implementation.

Whereas Abstract class may have few implemented methods. If some common functionality needs to be shared.

22. What is user defined exception ?

Ans)

23. What do you know about the garbage collector ?

Ans) Java has an inbuilt mechanism for garbage collection.

All those objects not longer being referenced are garbage collected. i.e the memory used by these objects is released.

24. What is the difference between C++ & Java ?

25. Explain RMI Architecture?

26. How do you communicate in between Applets & Servlets ?

27. What is the use of Servlets ?

Ans) To generate dynamic content based on the request.

28.What is JDBC? How do you connect to the Database ?

Ans) Java Database connectivity.

Using jdbc drivers provided by db drivers.

29.In an HTML form I have a Button which makes us to open another page in 15 seconds.

How will do you that ?

30.What is the difference between Process and Threads ?

Ans) There could be no of processes(multi tasking) and every process could have no of threads(multi threading).

31. What is the difference between RMI & Corba ?

Ans) Remote method invocation : java only. uses JRMP to communication between java objects

Common object request broker architecture : platform independent. Uses IIOP to communicate between objects.

32.What are the services in RMI ?

33.How will you initialize an Applet ?

34.What is the order of method invocation in an Applet?

35.When is update method called ?

36.How will you pass values from HTML page to the Servlet ?

Ans) submitting the html form.

37.Have you ever used HashTable and Dictionary ?

Ans) Dictionary is an abstract class. Hastable extends Dictionary.

38.How will you communicate between two Applets ?

39.What are statements in JAVA ?

40.What is JAR file ?

Ans) Jar file is an archive of java classes.

41.What is JNI ?

Ans) Java Native interfaces.

42.What is the base class for all swing components ?

43.What is JFC ?

Ans) Java Foundation classes.

44.What is Difference between AWT and Swing ?

45.Considering notepad/IE or any other thing as process, What will happen if you start notepad or IE 3 times? Where 3 processes are started or 3 threads are started ?

Ans) processes.

46.How does thread synchronization occurs inside a monitor ?

Ans) A thread acquires the monitor.i.e it obtains a lock on the monitor.No other thread can acquire a lock on the same monitor until it is released by the previous thread.

47. What are 4 drivers available in JDBC ?

Ans) jdbc-odbc bridge

Type 4 : pure java driver. no need to have db client installed on client mcs.

48. How can you know about drivers and database information ?

49. How will you perform transaction using JDBC ?

50. In RMI, server object first loaded into the memory and then the stub reference is sent to the client ? or whether a stub reference is directly sent to the client ?

Suppose server object is not loaded into the memory, and the client request for it, what will happen?

51. What is serialization ?

Ans) Process of persisting an object.

52. What is the difference RMI registry and OS Agent ?

53. To a server method, the client wants to send a value 20, with this value exceeds to 20, a message should be sent to the client ? What will you do for achieving for this ?

54. What are the benefits of Swing over AWT ?

55. Where the CardLayout is used ?

56. What is the Layout for ToolBar ?

57. What is the difference between Grid and GridBagLayout ?

58. How will you add panel to a Frame ?

59. What is the corresponding Layout for Card in Swing ?

60. What is light weight component ?

63. What is Servlet API used for connecting database ?

64. What is bean ? Where it can be used ?

65. What is the difference in between Java Class and Bean ?

66. Can we send object using Sockets ?

67. What is the RMI and Socket ?

68. How to communicate 2 threads each other ?

72. What is the functionality stubs and skeletons ?

74. Diff between Application and Applet ?

75. What is serializable Interface ?

76. What is the difference between CGI and Servlet ?

77. What is the use of Interface ?

78. Why Java is not fully object oriented ?

79. Why does not support multiple Inheritance ?

80. What is the root class for all Java classes ?

81. What is polymorphism ?

82. Suppose If we have variable 'I' in run method, If I can create one or more thread each thread will occupy a separate copy or same variable will be shared ?

83. In servlets, we are having a web page that is invoking servlets username and password ? which is checks in the database ? Suppose the second page also If we want to verify the same information whether it will connect to the database or it will be used previous information?

90. What are session variable in Servlets ?

- 91 What is client server computing ?
- 93 Why we use OOPS concepts? What is its advantage ?
- 94 What is the middleware ? What is the functionality of Webserver ?
- 95 Why Java is not 100 % pure OOPS ?
- 96 When we will use an Interface and Abstract class ?
- 97 What is an RMI?
- 98 How will you pass parameters in RMI ? Why u serialize?

- 100 What is the main functionality of the Remote Reference Layer ?
- 101 How do you download stubs from a Remote place ?

- 104 What is the main functionality of the Prepared Statement ?
- 105 What is meant by static query and dynamic query ?

- 107 What is meant by Servlet? What are the parameters of the service method ?
- 108 What is meant by Session ? Tell me something about HttpSession Class ? How do you invoke a Servlet? What is the difference in between doPost and doGet methods ?
- 109 What is the difference in between the HTTPServlet and Generic Servlet ? Explain their methods ? Tell me their parameter names also ?
- 110 Have you used threads in Servlet ?
- 111 Write a program on RMI and JDBC using StoredProcedure ?

- 113 In a Container there are 5 components. I want to display all the components names, how will you do that one ?
- 114 Why there are some null interface in java ? What does it mean ? Give me some null interfaces in JAVA ?

- 116 What is meant by class loader ? How many types are there? When will we use them ?
- 117 How do you load an Image in a Servlet ?
- 118 What is meant by flickering ?
- 119 What is meant by distributed Application ? Why we are using that in our applications ?
- 120 What is the functionality of the stub ?

- 122 What is the latest version of JDBC ? What are the new features are added in that ?
- 123 Explain 2 tier and 3 -tier Architecture ?
- 124 What is the role of the webserver ?

- 127 What is meant by cookies ? Explain ?
- 132 Public static void main â€œ Explain What are command line arguments
- 133 Difference between String & StringBuffer
- 134 Wrapper class. Is String a Wrapper Class
- 135 What are the restriction for static method
- 136 Purpose of the file class
- 137 Default modifier in Interface
- 138 Can abstract be declared as Final
- 139 Can we declare variables inside a method as Final Variables
- 140 What is the package concept and use of package
- 141 How can a dead thread be started
- 142 Difference between Applet & Application
- 143 Life cycle of the Applet
- 144 Can Applet have constructors

- 145 Difference between canvas class & graphics class
- 146 Explain about Superclass & subclass
- 147 Difference between TCP & UDP

- 149 Explain Stream Tokenizer
- 150 What is the difference between two types of threads
- 151 Checked & Unchecked exception
- 152 Use of throws exception
- 153 What is finally in exception handling
- 154 Vector class
- 155 What will happen to the Exception object after exception handling
- 156 Two types of multi-tasking
- 157 Two ways to create the thread
- 158 Synchronization
- 159 I/O Filter
- 160 How can you retrieve warnings in JDBC
- 161 Can applet in different page communicate with each other
- 162 Four driver Manager
- 163 Features of JDBC 2.0
- 164 Explain about stored procedures
- 165 Servlet Life cycle
- 166 Why do you go for servlet rather than CGI
- 167 How to generate skeleton & Stub classes
- 168 Explain lazy activation
- 169 What is meant by Java ?
- 170 What is meant by a class ?
- 171 What is meant by a method ?
- 172 What are the OOPS concepts in Java ?
- 173 What is meant by encapsulation ? Explain with an example
- 174 What is meant by inheritance ? Explain with an example
- 175 What is meant by polymorphism ? Explain with an example
- 176 Is multiple inheritance allowed in Java ? Why ?
- 177 What is meant by Java interpreter ?
- 178 What is meant by JVM ?
- 179 What is a compilation unit ?
- 180 What is meant by identifiers ?
- 181 What are the different types of modifiers ?
- 182 What are the access modifiers in Java ?
- 183 What are the primitive data types in Java ?
- 184 What is meant by a wrapper class ?
- 185 What is meant by static variable and static method ?
- 186 What is meant by Garbage collection ?
- 187 What is meant by abstract class
- 188 What is meant by final class, methods and variables ?
- 189 What is meant by interface ?
- 190 What is meant by a resource leak ?
- 191 What is the difference between interface and abstract class ?
- 192 What is the difference between public private, protected and static
- 193 What is meant by method overloading ?
- 194 What is meant by method overriding ?
- 195 What is singleton class ?
- 196 What is the difference between an array and a vector ?

- 197 What is meant by constructor ?
- 198 What is meant by casting ?
- 199 What is the difference between final, finally and finalize ?
- 200 What is meant by packages ?
- 201 Name 2 classes that can store arbitrary number of objects ?
- 202 What is the difference between java.applet.* and java.applet.Applet ?
- 203 What is a default package ?
- 204 What is meant by a super class and how can you call a super class ?
- 205 What is anonymous class ?
- 206 Name interfaces without a method ?
- 207 What is the use of an interface ?
- 208 What is a serializable interface ?
- 209 How to prevent field from serialization ?
- 210 What is meant by exception ?
- 211 How can you avoid the runtime exception ?
- 212 What is the difference between throw and throws ?
- 213 What is the use of finally ?
- 214 Can multiple catch statements be used in exceptions ?
- 215 Is it possible to write a try within a try statement ?
- 216 What is the method to find if the object existed or not ?
- 217 What is meant by a Thread ?
- 218 What is meant by multi-threading ?
- 219 What is the 2 way of creating a thread ? Which is the best way and why ?
- 220 What is the method to find if a thread is active or not ?
- 221 What are the thread-to-thread communication ?
- 222 What is the difference between sleep and suspend ?
- 223 Can thread become a member of another thread ?
- 224 What is meant by deadlock ?
- 225 How can you avoid a deadlock ?
- 226 What are the three types of priority ?
- 227 What is the use of synchronizations ?
- 228 Garbage collector thread belongs to which priority ?
- 229 What is meant by time-slicing ?
- 230 What is the use of `StringBuffer` ?
- 231 How can you find the length and capacity of a string buffer ?
- 232 How to compare two strings ?
- 233 What are the interfaces defined by Java.lang ?
- 234 What is the purpose of run-time class and system class
- 235 What is meant by Stream and Types ?
- 236 What is the method used to clear the buffer ?
- 237 What is meant by Stream Tokenizer ?
- 238 What is serialization and de-serialisation ?
- 239 What is meant by Applet ?
- 240 How to find the host from which the Applet has originated ?
- 241 What is the life cycle of an Applet ?
- 242 How do you load an HTML page from an Applet ?
- 243 What is meant by Applet Stub Interface ?
- 244 What is meant by getCodeBase and getDocumentBase method ?
- 245 How can you call an applet from a HTML file
- 246 What is meant by Applet Flickering ?
- 247 What is the use of parameter tag ?
- 248 What is audio clip Interface and what are all the methods in it ?

- 249 What is the difference between getAppletInfo and getParameterInfo ?
- 250 How to communicate between applet and an applet ?
- 251 What is meant by event handling ?
- 252 What are all the listeners in java and explain ?
- 253 What is meant by an adapter class ?
- 254 What are the types of mouse event listeners ?
- 255 What are the types of methods in mouse listeners ?
- 256 What is the difference between panel and frame ?
- 257 What is the default layout of the panel and frame ?
- 258 What is meant by controls and types ?
- 259 What is the difference between a scroll bar and a scroll panel.
- 260 What is the difference between list and choice ?
- 261 How to place a component on Windows ?
- 262 What are the different types of Layouts ?
- 263 What is meant by CardLayout ?
- 264 What is the difference between GridLayout and GridBagLayout
- 265 What is the difference between menuitem and checkboxmenu item.
- 266 What is meant by vector class, dictionary class , hash table class,and
- 267 property class ?
- 268 Which class has no duplicate elements ?
- 269 What is resource bundle ?
- 270 What is an enumeration class ?
- 271 What is meant by Swing ?
- 272 What is the difference between AWT and Swing ?
- 273 What is the difference between an applet and a Japplet
- 274 What are all the components used in Swing ?
- 275 What is meant by tab pans ?
- 276 What is the use of JTree ?
- 277 How can you add and remove nodes in Jtree.
- 278 What is the method to expand and collapse nodes in a Jtree ?
- 279 What is the use of JTable ?
- 280 What is meant by JFC ?
- 281 What is the class in Swing to change the appearance of the Frame in
- 284 What is JDBC ?
- 285 How do you connect to the database ? What are the steps ?
- 286 What are the drivers available in JDBC ? Explain
- 287 How can you load the driver ?
- 288 What are the different types of statement s ?
- 289 How can you created JDBC statements ?
- 290 How will you perform transactions using JDBC ?
- 291 What are the two drivers for web application?
- 292 What are the different types of 2 tier and 3 tier architecture ?
- 293 How can you retrieve warning in JDBC ?
- 294 What is the exception thrown by JDBC ?
- 295 What is meant by PreparedStatement ?
- 296 What is difference between PreparedStatement and Statement ?
- 297 How can you call the stored procedures ?
- 298 What is meant by a ResultSet ?
- 299 What is the difference between ExecuteUpdate and ExecuteQuery ?
- 300 How do you know which driver is connected to a database ?
- 302 What is meant by TCP, IP, UDP ?
- 303 What is the difference between TCP and UDP ?

- 304 What is a proxy server ?
- 305 What is meant by URL
- 306 What is a socket and server sockets ?
- 307 When MalformedURLException and UnknownHostException throws ?
- 308 What is InetAddress ?
- 309 What is datagram and datagram packets and datagram sockets ?
- 310 Write the range of multicast socket IP address ?
- 311 What is meant by a servlet ?
- 312 What are the types of servlets ? Explain
- 313 What is the different between a Servlet and a CGI.
- 314 What is the difference between 2 types of Servlets ?
- 315 What is the type of method for sending request from HTTP server ?
- 316 What are the exceptions thrown by Servlets ? Why ?
- 317 What is the life cycle of a servlet ?
- 318 What is meant by cookies ?
- 319 What is HTTP Session ?
- 320 What is the difference between GET and POST methods ?
- 321 How can you run a Servlet Program ?
- 322 How to communicate between an applet and a servlet ?
- 323 What is a Servlet-to-Servlet communication ?
- 324 What is Session Tracking ?
- 325 What are the security issues in Servlets ?
- 326 What is HTTP Tunneling
- 327 How do you load an image in a Servlet ?
- 328 What is Servlet Chaining ?
- 329 What is URL Rewriting ?
- 330 What is context switching ?
- 331 What is meant by RMI ?
- 332 Explain RMI Architecture ?
- 333 What is meant by a stub ?
- 334 What is meant by a skeleton ?
- 335 What is meant by serialisation and deserialisation ?
- 336 What is meant by RMI ?
- 337 What is the use of TL ?
- 338 What is RMI Registry ?
- 339 What is rmic ?
- 340 How will you pass parameter in RMI ?
- 341 What exceptions are thrown by RMI ?
- 342 What are the steps involved in RMI ?
- 343 What is meant by bind(), rebind(), unbind() and lookup() methods
- 344 What are the advantages of RMI ?
- 345 What is JNI ?
- 346 What is Remote Interface ?
- 347 What class is used to create Server side object ?
- 348 What class is used to bind the server object with RMI Registry ?
- 349 What is the use of getWriter method ?
- 350 What is meant by Javabeans ?
- 351 What is JAR file ?
- 352 What is meant by manifest files ?
- 353 What is Introspection ?
- 354 What are the steps involved to create a bean ?
- 355 Say any two properties in Beans ?

- 356 What is persistence ?
- 357 What is the use of beaninfo ?
- 358 What are the interfaces you used in Beans ?
- 359 What are the classes you used in Beans ?
- 360 What is Entity Bean and Session Bean ?
- 361 What are the methods of Entity Bean?
- 362 How does Stateful Session bean store its state ?
- 363 Why does Stateless Session bean not store its state even though it has
- 364 ejbActivate and ejbPassivate ?
- 365 What are the services provided by the container ?
- 366 Types of transaction ?
- 367 What is bean managed transaction ?
- 368 Why does EJB needs two interface(Home and Remote Interface) ?
- 369 What are transaction attributes ?
- 370 What is the difference between Container managed persistent bean and Bean
- 371 managed persistent entity bean ?
- 372 What is J2EE ?
- 373 What is JTS ?
- 374 How many entity beans used and how many tables can u use in EJB project ?
- 375 What is scalable,portability in J2EE?
- 376 What is Connection pooling?Is it advantageous?
- 377 Method and class used for Connection pooling ?
- 378 How to deploy in J2EE(i.e Jar,War file) ?
- 379 How is entity bean created using Container managed entity bean ?
- 380 Software architecture of EJB ?
- 381 In Entity bean will the create method in EJB home and ejbCreate in Entity
- 382 bean have the same parameters ?
- 383 What methods do u use in Servlet & Applet communication ?
- 384 What are the types of Servlet ?
- 385 Difference between HttpServlet and Generic Servlets ?
- 386 Difference between doGet and doPost ?
- 387 What are the methods in HttpServlet?
- 388 What are the types of SessionTracking?
- 389 What is Cookie ? Why is Cookie used ?
- 390 If my browser does not support Cookie,and my server sends a cookie
- instance What will happen ?
- 392 Why do u use Session Tracking in HttpServlet ?
- 393 Can u use javaScript in Servlets ?
- 394 What is the capacity the doGet can send to the server ?
- 395 What are the type of protocols used in HttpServlet ?
- 396 Difference between TCP/IP and IP protocol ?
- 397 Why do you use UniCastRemoteObject in RMI ?
- 398 How many interfaces are used in RMI?
- 399 Can Rmi registry be written in the code, without having to write it in the
- command prompt and if yes where?
- 401 Why is Socket used ?
- 402 What are the types of JDBC drivers ?
- 403 Explain the third driver(Native protocol driver) ?
- 404 Which among the four driver is pure Java driver ?
- 405 What are the Isolation level in JDBC transaction ?
- 406 How do you connect with the database ?
- 407 How do you connect without the Class.forName (" ") ?

- 408 What does Class.forName return ?
- 409 What are the types of statement ?
- 410 Why is preparedStatement,CallableStatement used for?
- 412 Difference between AWT and Swing compenents ?
- 414 Can the Swing application if you upload in net, be compatible with your browser?
- 416 What should you do get your browser compatible with swing components?
- 417 What are the methods in Applet ?
- 418 When is init(),start() called ?
- 419 When you navigate from one applet to another what are the methods called ?
- 420
- 421 What is the difference between Trusted and Untrusted Applet ?
- 422 What is Exception ?
- 423 What are the ways you can handle exception ?
- 424 When is try,catch block used ?
- 425 What is finally method in Exceptions ?
- 426 What are the types of access modifiers ?
- 427 What is protected and friendly ?
- 428 What are the other modifiers ?
- 429 Is synchronised modifier ?
- 430 What is meant by polymorphism ?
- 431 What is inheritance ?
- 432 What is method Overloading ? What is this in OOPS ?
- 433 What is method Overriding ? What is it in OOPS ?
- 434 Does java support multi dimensional arrays ?
- 435 Is multiple inheritance used in Java ?
- 436 How do you send a message to the browser in JavaScript ?
- 437 Does javascript support multidimensional arrays ?
- 438 Why is XML used mainly?
- 440 What is DTD ?
- 441 Is there any tool in java that can create reports ?
- 456 Describe an object.
- 457 What are sockets?
- 458 What are threads?
- 476 What's the difference between UDP and TCP?
- 478 What is the difference between a static and non-static field (Java)
- 479 What's the difference between a stack and a Queue?



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