**Java Viva Questions**

**1.what is abstract class?**

**Abstract class is class which contains only abstract methods or only concrete methods or combination of both.**

**We never create object for abstract class**

**2. what is interface?**

**Interface contains only abstract methods and public static final variables.**

**It is not possible to create object for interface.**

**We use “interface” keyword to define interface.**

**3.what is byte code?**

**Java bytecode is the form of instructions that the**[**Java virtual machine**](http://en.wikipedia.org/wiki/Java_virtual_machine)**executes. Each**[**bytecode**](http://en.wikipedia.org/wiki/Bytecode)[**opcode**](http://en.wikipedia.org/wiki/Opcode)**is one byte in length,**

**4.what is JVM?**

**Java Virtual Machine takes byte code from .class file and converts byte code into binary code.**

**5.who compiles java program?**

**Javac is compiler which compiles java programs and converts source code into byte code and keeps that byte code in .class file**

**6.what is a class?**

**A class is entity which combines fields(state) and methods (behavior).**

**7.what is polymorpism?**

**Already existed method is showing an extra behavior then we can say this method is having polymorphic behavior.**

**Types Of Polymorpism:**

**-- Overloading**

**--Overriding**

**8.what is abstraction?**

**The process of hiding the implementation details of class and exposing only methods of that class is called as abstraction.**

**9.what is encapsulation?**

**Polymorpism is the process of combining state and behavior .**

**10.what is inheritance?**

**The process of giving the properties of parent class to child class is called as inheritance**

**11.does java supports multiple inheritance?**

**No java doesn’t support multiple inheritance**

**12. Features of Java?**

**Refer class no 1 notes**

**13.what type of jdbc driver you have used in your project?**

**Type 4 mechanism based jdbc driver for mysql database s/w**

**14.what is you project architecture?**

**3 tier architecture**

**Clien (1st tier)**

**Webserver (2nd Tier)**

**Database (3rd tier)**

**15.what process model you have followed to develope your project?**

**I have followed waterfall model to develop my project**

**The waterfall model is a sequential software development model in which development is seen as flowing steadily downwards (like a waterfall) through several phases.**

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**16.what are the phases in s/w development life cycle?**

**Project Planning – Determines the project’s goals and results.**

**Requirements Definition – Results in the creation of well-defined functions from the defined project goals.**

**Systems Design: Project features and operations are describe in detail to include technical specifications, use of UML (when required/suitable).**

**Implementation/Development: One of the most costly phases of the SDLC for information systems.**

**Integration and testing: A common phase that is under-funded by many corporate entities**

**Acceptance and Deployment: Software is deployed to the customer and starts accomplishing the desired work.**

**17.what is existing system of your project?**

**Explain existing system of your project**

**18.what is proposed system of your project?**

**Explain proposed system of your project**

**19.what is unit testing?**

**Unit test: an automatic test to test the internal workings of a class. It should be a stand-alone test which is not related to other resources.20.what is white box testing?**

**20.what is white box testing?**

**White Box Testing are tests that are run an application with the knowledge of the internal working of the code base**

**21.what is black box testing?**

**Black-box testing is a method of software testing that tests the functionality of an application**

**22.what is web server?**

**A web server is a piece of s/w software having capability to take request from client and passes that request to corresponding web resource program and collects output from that program and sends this output to client as response.**

**23.what is the default port number of tomcat?**

**8080**

**24.what is the default port number of MySql database?**

**3036**

**25.what is a servlet?**

**Servlet is web resource program it has capability of generating both static webpage and dynamic webpage. I used servlet to develop controller in my project**

**26.what is JSP(java server pages?**

**jsp is web resource program it has capability of generating both static webpage and dynamic webpage. I used jsp to develop view layer logicsin my project**

**27.Explain Life Cycle Of A Servlet?**

**Refer your note book**

**28.what are the life cycle methods of servlets?**

**public void init(ServletConfig cg)**

**public void service(ServletRequest request, ServletResponse response)**

**public void destroy()**

**29.what is web.xml?**

**web.xml is deployment descriptor file in which we configure details of our servlet,jsp programs**

**30.what is the difference between servlet and jsp?**

**31.servlet version?**

**Servlet 2.5**

**32.jsp version?**

**Jsp 2.0**

**33.jdbc version?**

**Jdbc 3.0**

**34.tomcat version?**

**Tomcat 6.0**

**35.Jdk version**

**Jdk 1.6**