*1 . What is java? And main features?*

* *Java is an object-oriented programming language*
* *Writing , compilation and debugging a program is very easy in java.*
* *Java is a platform independent , portable and open source.*

*2. What is platform independent?*

*During the compilation the java program converts into byte code.*

*Using byte code, we can run the application to any platform such as windows , Mac, Linux, etc.*

*3. what is JDK?*

*It is Java Development Kit. It implements the java language specification and the JVM specification and provides the Standard Edition of the Java application programming interface. If we want to run any application in java we need to install JDK.*

*4.What is JRE?*

*It is Java Runtime environment. It is pre-Defined Class files(Library).*

*5.What is JVM?*

*It is Java Virtual Machine. It is mainly used to allocate the memory and compiling process. It is enabling a computer to run java program as well as program written in other language that are also compiled to java byte code .*

*6.What is oops?*

*Object oriented Programming Structure. OOPS is a method of implementation in which programs are organized as collection of objects , class and methods. encapsulation, inheritance , polymorphism those concepts are provided by OOPS.*

*7.what are the coding standard used in java ?*

*Pascal notation : CheckAccess*

*Camel notation :checkAccess*

*8.What is class?*

*Collection of methods or collection of objects.*

*9.What is methods ?*

*It is nothing but set of action to be performed.*

*10.Whst is objects ?*

*Object is the run time memory allocation ; it is used to call any methods in a program.*

*11.what is Encapsulation?*

*It is Structure of creating folder. It wraps the data and code acting on a data together in a single unit.*

*12.What are the data types used in java?*

*Byte ,int ,short ,long ,float ,double , String ,Boolean , char.*

*13.what is wrapper class?*

*Classes of data types is called Wrapper class.*

*It is used to convert any data type into object.*

*All classes an wrapper classes default value is null.*

*14.What is the use of Scanner class?*

*It is mainly used for getting inputs from user at program run time.*

*15.What are the methods available in Scanner class?*

* *nextByte();*
* *nextInt();*
* *nextShort();*
* *nextLong();*
* *nextFloat();*
* *nextDouble();*
* *nextCharAt();*
* *nextBoolean();*
* *next();*
* *nextLine();*

*16.What is the purpose of inheritance ?*

*We can access one class property into another class using ‘extends’ keyword and reusable purpose.it avoids memory wastage.*

*17.what is polymorphism?*

*Poly-many , Morphism-forms*

*Taking more than one forms is called polymorphism. Here its defined one task is completed by many ways.*

*18.List out the types of inheritance?*

* *Single*
* *Multilevel*
* *Multiple*
* *Hybrid*
* *Hierarchical*

*19.Why multiple inheritance is not supported in java?*

*It has a priority problem -if both parent class having same method name it will get priority problem, so it doesn’t work in java.*

*It’s made through compilation error/Syntax Error.*

*20.How the access specifier is working?*

*It decides the level of access to the variable ,method and class.*

*21.What is the difference between public and protected?*

*public – globally accessible (same package + different package)*

*protected- Its accessible in same package only.*