	JAVA VIVA PREPARATION
140 -14	All the state of t
Qe)	Explain JDK, JRE and JVM? JDK JRE JVM.
	JDK JRF JVM. 1976
an e	Java Development Kit. Java Runtime Fring. Java Viutual Machine
•	Tool necessary to compile. A Runtime Envison- · Anabstract machine.
awl.	document & package ment in which Java byte A specification that
	Java programs. code can be executed provides. [] (egme)
hbs.	Contains JRE + · An implementation · JVM follows 3 notations:
111	development tools of JVM which specification,
an .	physically exists. implementation,
.91	runtime instance.
(p	Why is Java platfour-independent?
Ans)	Java is platform-independent because of its byte codes
Lorens	which can run on any system irrespective of its
Mary.	underlying operating system.
(D	Why is Java not 100% object-oriented?
Ang \	Because it makes use of eight puimitive data types
当自由	such as boolean, byte, char, int, float, double, long,
	shout which are not objects.
2	MED Propage in whening a local livere of approved (and
(2)	What are wrapper classes in Java?
	htrapper classes convert the Java primitives into
	refuence types (i.e. objects). Every primitive data
7	tupe has one. Called wrapper as they wrap' the
	puimitive data type into objects of class.

Block of code used to initialize an object, has no return type and is automatically called when object is oreated.

1) Default constructor: Doesn't take any inputs, main purpose is to intialise variables with default values and

. and object weation. - mount animal delignor of june 2001 loit

2) Parameterized Constructor: Capable of intializing the instance variables with provided values.

3) What is singleton class in Java and how can it be made?

Ans) singleton class is a class whose only one instance can be weated at any given time in one JVM. A class can be made singleton by making its constructor puivate.

3) Difference blue tequals () and == in Java?

Ans) Equals () method is defined in object class in java and used for checking equality of two objects defined by business logic. (value of objects)

'== or equality operator in Java is a binary operator used to compare primitives & objects.

(3) What is a package in Java? List down various advantages of packages.

Ans) Packages are collection of related classes and interfaces which are bundled together. By using Developens can easily modularise the code and optimitise its reuse

Easy access control on code.

easier to locate related classes in makes it

g) Why are pointers not used in Java? Because they are unsafe & increases the complexity of the puogram. Since JVM is responsible for implicit memory allocation, thus in order to avoid direct access to memory by the user, pointers are discouraged g) What is Object-Oviented Puogramming? Ans) Is a purguamming model or approach where the purgrams are organized around objects rather than logic and functions, this approach is ideal for purgrams large and complex codes and needs to be actively updated or maintained. What is the difference between a local variable and an instance variable? A local variable is typically used inside a method, constructor, or a block and has only local scope, variable can be used only within scope of block. An instance variable is a variable which is bounded to its object itself, declared within a class but outside a method. Every object of that class will create its own copy of the variable, so any changes made to the variable won't reflect in any other instances of that class and will be bound to that particular instance

- B) Why are Java strings immutable in nature?

 Ane) String is immutable because String objects are cached in the string pool. Since cached String literals are shared between multiple clients there is always a risk, where one client's action would affect another client.
- B) If I don't provide any arguments on the command line, then what will the value stored in the string array passed into the main () method be, empty or NULL?

 Ans) It is empty, but not NULL.
- 9) What if I white 'static public void' instead of 'public static void'?
- Ans) Puogram compiles and runs correctly as order of specifieus doesn't matter.
- Mhat is the default value of local variables?

 Ans) Local variables are not intialized to any default value, neither primitives now object references.
- 3) What is the difference between an object-oriented programming language?
- Ans). OOL follow all concepts of OOPs whereas OBL doesn't follow all OOPs concepts like inheritance & polymorphism
 - 100 Le don't have inbuilt objects whereas OBLE have 18 for eg JavaScript has window object

- -> If static modified removed from main, program compiles but in runtime throws 'Nosuch Method Engl
- -> The object class is superclass of all other classes in
- topoday sqiposovit 170 3) Why is multiple inheritance not supported in java? Ans.) To reduce the complexity & simplify the language.
- -> We can have any no of main methods by using or overloading and of epider bottom stirted.
- -> Type promotion; byte come and obserge the value

char > int > float long ___ double

B) play to pair a other static?

-> You can't override static method because they are part of the class, not the object.

Are) As a cliffe had requested to each startic mathed Thus

of sword time MIS whole and a said in the in altern

of stand dolder () where was and once respect on the

Making constructions static gives anying constitution