Page No. Assistament Date i) Components of JDK : 2+ strands for Java Development kit & it is the saturage development environment which is used for Jok Consists of Components like -Loader, Compiler, an Archive file a documentation generator with many other Components 2) Difference between JVM, JRF & Jok: JVM - Stands for JVM (Java Viretual
Machine) which provides Runtime environment for the Java programs.

In this Java apply Can be executed JRE - Stands for Java Runtime Machine used to execute Java program JVM uses JRE for it's implementation JDK - Stands for Java Development explications & it contains TIRE & development tools

Role of JVM in Java & How does the JUN Stands for Java Vintual Machine
That Compiles the Java program &
produces the class file. includes load code, Vereit Code, execute code & provides the code, trecute code & provides the countries environment. 4) Memory Management of Jum: JVM has vareious data arrea which The used during execution of preogram.

Some Memory management done of Ciseatred by Jun & Some are by three ad.

Some of Jun memory Areas

are Heap area Method area.

Jun Stack, Native Method

Stack, Pc Registers. JIT compiler & it's roole in JVM.

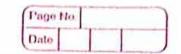
What is bytecode & why it is

important: JIT Stands for Just In Time

Page No. Date It is runtime environment Component Le used for the improvement of the Java Code or application. It Compile the Bytecode in the Machine Code at runtime At the rountine Jun loads the class files & determines the each individual of the bytecode & performs the necessary computation JIT Compiler is enabled by default. When the method is Compiled the JVM Calls the code directly & compilation does not take extractime & memory How JVM Hooks s: Jun Stands for Java Viretual Machine. Jum calls the main method present in the code. He Can wrette juva code once & can is done by Jum & : class file Code is Compiled Step by Step

& this Step by Step Compilation

of escolbes TVM Harris Harris



As Java follows the Island Concept which
means Ideite one & Run Anywhere
this is supported by the Jun.
Once the Code is weither then
It can be sun on any device -that has JVM. The code is connected into the Machine understandable language through the compiler with the help of Java Jim so the code once System controut any changes by Significance of class loader in Java
2 process of garbage Collection
in Java : Class loader performs the task

2 Loading Tava class into the

Time during countine class loaders are

also the part of TRE. Jum does

not pood to know about the files

& files structure because of Class Loader. Due to Garchage collector there is no need to allotate or deallocate the memory dynamically 11 les C+1

IT-'s main purpose is to enhance

Speed of application & memory