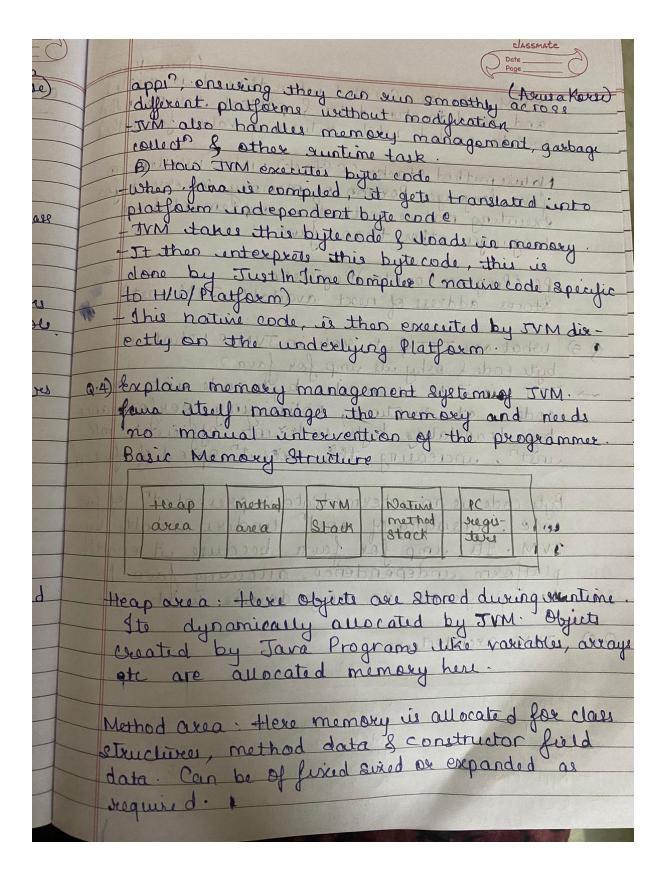
TYM Architecture Interniew Questions (Arusa Korse) Dhura Compiler Garas jorac is a key component of Jok that transforme java files to byte code is classite file can be executed an any platform using TVM. TVM (feira Virtual Machine) TVM is a scintime envisonment that execute byterode. It enable Java Program to sur undependente of HIW 8 08. 3) JRE (Java Runtine enuiconment) It's a subset of JDK, that uncludes JVM and additional libraries sequired to sun fava apple on end user system without the need of 4) API libraries of the methode. This cours are as such as 1/P are 0/P, N/w. Database connectionity etc. 307 hages 5) Java Debugger (JDB) It is a tool for debugging fava appl.

It helps in understanding program flow & logical exerce Ofavadoc Imagos monto forador is a documentation that auto generates documentation from Java Source code

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	does JVM execute byte code?			de
	A) ROLL OF JVM			
	- JVM acts as a bridge bet? Java code & o			
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(Arusa Korse) JVM Stacks: Created when thread is created and used to store data of partial results will be needed while setuing Nature method stacks (CStack): Not written un language Portion of memory languages other than PC (Program Counter) Registers address of nevet available JVM inst en takes 9 TT & its state in JVM 9 What is byte code of why its simp for in JVM compiles byte code at sunting, optimizing performance by translating byte code into ej increasing the execut speed of favo appl Byte code is an intermediate despresentat code, consisting of unstr platform undependence allowing on any device with TRE Q.6) JVM architecture JVM class loades Runtine Method He apstack Class Loade, Appl Loader PC sugutor nature method extension stack. Case Loader

classmate (Arusa Koese) D class loder Subsystem.

Responsible for Ibading class file in RAM.

4+ comprises of Bootstrap, Extension of Appl Loader 2) Rustine Data Area Durided into seneral memory areas like Method Area, Heap Area, Java Stack, Native Method Stack & PC register. They manage memory allocath, method execut 3) execution engine Consiste of Interspecter, JIT Compiler & harbage Couertos Interpreter executos byte code line by line, JTT dynamically compiles frequently executed byte code to mic specific code: The barbage collector manages mornory by seclearing unused objects. Q-+) How does fava achieve Platform undependence through JVM2 It achieves Platform undependence by compiling fava ste source code unto byte code JVM then interprets byte code into m/c ende underestandable by underlying the ensuring execut across different platform without modifying actual code 19. 1) what is the significance of Class Loader in fava? What is the process of Lyarbage collection in fava? class loades: dynamically loads faux classes unto memory during suntime. It loca these classes from different sources like

files and makes them seedy for use. They ensure that night classes are available when needed. when needed. collection is an automated process cleaking memory used identifiés all reachable objects them reachable - Sweeping: Scans heap to identify unkeach Delation! Finally cit deallocates memore occupied by these unreached efficiently use memory of avoid