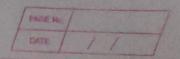
	COATE / / /
#	JOK Assignment [shreyash shedge]
	Calca Morana is and only from the land to
7)	Explain the components of JOK?
	Jok stonds for Javce Development kit
=	this property down to
	- of = (Tayor Devitoria) + (Tayor Asia)
	JOK = (JOVE DEV. 70015) + (JAVE APIDOCS) +(Vt. JOV)+ (JV
-	- Creen
-	d) Java per Tools: - 50ftware programs or utilities
200	designed to help developers in coding and
3.4	maintaing applications e.g. IDEs, Text editors.
	tro noito alla agadrap
	b) Java API docs :- This provides overall documentation
	of the java platform, which has classes,
	interfaces, methods and puckages.
	thines we run a Java magram, the Jun a
	c) 8+ Jar - It is called vuntime JAR and
	contains out the classes.
	The some steads it executes more and
	of JYM 1- It is a Jora virtual machine that
	JYM 1- It is a series buildende [compile + execute)
	executes java bytecode (campile * execute)
	is properly continued and appearing and and
1	their her memory money work well works.
2) 3	Differentiate JDK, JVM and JRE!
2	1 106 Apole for developing
	JOK Java application [copiler & libraria]
	Jum wentime environment
	Provides vantime environment
	for jora application.
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FREE HE

+ admitted 3) what is JVM? How does it execute code? TVM is responsible for converting bytecode to machine-specific code and also performs memory management and security. and - (Jave persons) + (Jorden punc) = dar Three main components are: a) class loades subsystem. - 2 1001 vgg soul (6 b) Runtime Data areas - method areas, Poregisters. c) execution engine -> Interpreter, compiler and garbage collection area. Java Apa Apre Bis provides averell of the java platform. which has 4) Memory management in James TUT9? 2007 101 TolWhen we run a Java program, the JVM creates a space in memory called the "heap" to store all the objects that our program uses. b) As our program runs, it creates more and more objects and the JVM needs to make sure there enough space in the heap for all of them. For this Jun uses "gorbage collector" for Yeusing the space that's how memory management works. Chronick tok, July and JIT compiled - Justintime It is used for the purpose of performance improve ment, JIT compiler takes frequently executeel bytecode and compiles it in machine code which is done father in a faster manner and more efficiently and,



Bytecode

It is a low-level code that is generated by Java

rompiles after compiling It is then executed by

IVM

It is important because it is same on every markine

which helps Java to van same program on different machines.

6) Ans:-

Oclass Loader: Loads Java classes into the Jum.

it loads the bytecode of a dass from the disk
into memory and creates dass object. (metadatass
inside).

B Method area: It is a shored memory area that Stores the byte code of all loaded classes It also stores the runtime constant pool, which is a

O Heap & stack: - Heap is area that stores all objects created during execution and stack stores the state of each thread (local variables).

DExecution engine: - Execution of Bytecode (JIT) is used here.

7) Ans:- Platform independance:-

It uses platform-independent bytecode theet is executed & by TVM as it provides consistent suntime environment which helps us torun on any platform without modification.

8) Ans:-

during runtime, It loads the byte code of a class from the disk into memory, and it creates a class-object (which has metadata),

( B) Grar bages collection :- and a site of budland It is an automatic process of freeing up memory by removing objects that are not needed any more. Jym is designed to manage memory efficiently onits owned me grote dions & grote the state of each thread place on the

to about the contine of the contine of Byt and and