| 1  |  |
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|  | Assignment - 2 dimen 72 to the town  |
|  | what is difference between JDR, JRE 8 JVm ?  |
| 1 1 mar 1 ma | on a man a broken out handwarf has wall make writerally with   |
| <u> </u>   | JPR JPR  |
|  | Comment of the contract of the |
| The Hard Street  | OFFIC Stands for Java O TRE stands for O TVM stands for Tana   |
| 5 S  | Development  Cit Java Run-time - Virtual machine   |
|  | environment  |
| 1  | 1 It is often called as 1 It is a set of (2) Turn loads, reinfies  |
|  | 'Superet of JRE' 8/w tools responsible and execute jung  |
|  | for execution of Jana byte rode  |
|  | reson mult be thereenes program or apply sell estate agent   |
|  | winds comment and their several primary its who agreed their   |
|  | (3) It is foundational (3) Nses near space (3) It is known as  |
| - UN   | Component that enables for dynamic memory Interpreter  |
|  | Jana Applin 1 & Jana appliet allocation for java   |
|  | derdopment object  |
|  |  |
|  | DIDIR contains all the @ TRE is composed @ Jum is blatform   |
| - K.   | tools required to compile of a variety of other dependent  |
| The Fre  | debug & run a projeam supporting e/w tools   |
|  | devloyed ming the java & feature to get  |
| ( (4.39c.s.)   | platform the most out of   |
|  | want maison in was Java applies that we trade  |
|  | A Local of Tolland Tolland   |
| -  | byte (ode + JWM makes Java   |
| - Dear and   | platform of independent  |
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What is JIT compiler 1 - JIT is an type of compiler that dynamically compiles code during num time, as opposed to ahead of time compilation. The JIT compiler takes cock allows for faster program execution. By compiling code at nuntime, The III compiler can optimize the compiled code based on the arthal maje pattern of the program This can result in significant performance improvements over aread - of - time compilation (3) What is Class boader? This boler Class Loader is the component of Ivm mat 13 responsible for loading Jana classes into the memory during runtime. The class loader loads para classes from various sources such as local file system remote file system or n/w locations, and malces them available to the Java magsam that is execuling. 3 types of Class Logder -Bootstrap - Loaded during the stortup of the TVM. If loads core Towa classes, such as java. lang. Object gara. lang. String etc from the TRE Externion - This class lander is responsible for landing classes that are part of the jana Extension mechanism. These are located in jre/liblext System class - This class loader is responsible for loading that one defined by The apply. It loads classes from the danspats which is a list of directories and JAR files That centain The undaram apply classes.

6) what gives juma its 'write once and Run Ayywhere I notire ? expect it to run on any other java-enabled system without any adjustment Tow work feature of Town har made it a popular choice for developing cross-platform apply. It allow developers to creake S/w that can run on multiple operating sycken and devices without having to write different versions of the code for each makes it easier to maintain and updake s/w across multiple platforms. @ Explain history of jana & who invented jana ? OHistory of Janes 8 tooks with 'Creen Team' 3) The principles for creating Java mossamming were "Simple,
Robert, Portable, platform independent, secured, High Renformance" 3) Java is used in internet programming, mobile devices, games, e-buriness solutions etc Tomes Gosling, Mike Sharidan Patrick Nagnton initiated Java language project in June 1991 These small fear of sun engineers called "Creen Fearm" (5) Java was developed by 'James Gorling' who is known as father of Java, in 1950

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| (5)        | what was the original name of Jana I why it was renamed 9  |
|------------|--|
|            | and was the on from the to   |
| 17.        | The original parme of your was oak which was developed   |
|            | 1 comment from of engineer westery Dr sun microsylem   |
| 1 10 10    | Trey called themselves the 'Creen Team'  |
| 1 4        | 12 The Oak name was renamed and to The fact That Dale  |
| N. A.Y     | was already registered as part of another trademork  |
|            | and the theory are the walking research as the orthogon  |
| . 79<br>1  | in the same in a marrier Transfer the order to the   |
| 6          | List Features of Jones ?   |
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|            | 8 O Simple   |
| Ġ.         | @ Object oriental  |
| 1.3        | @ Perfables manovin ones & sury a partial malarel all  |
| T<br>.as   | @ Platform Independent   |
|            | (8) Secured made wared area starts and to contain it   |
| <u> </u>   | of 6 Robert immorrand and willow of Adigining all or   |
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|            | 1 Interpreted  |
| 3          | (D) Distributed  |
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|              | Delatypes in Tava  |
|--------------|--|
| × 1, 16      | @ List voions Dafatypes in Java  |
| . A.A.C.     | Trapport of the state of the st |
| #            | Data type  |
| ¥            | at and make the proof of the state of the st |
| 4            |  |
|              | Primitive Non-Primitive  |
| . 4.00       | Class  |
| 45           | Interface - Interface  |
| - 1          | Boolean Numeric Emin   |
|              | - combine my 1300 11 1901 - Away   |
|              | Integer floating   |
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|              | Ly Long  |
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| - Maryana    | (5) what is difference 6/w 8ystem.out-point();   |
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|              | System. out. print () System-out. printle() System. err. print()   |
|              | The author or cursor (1) The author (answ (1) Used to  |
|              | remains on the same moves to the next display ever   |
|              | remains on the same moves to the next display ever line after printing message.  |
|              | ,  |
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| La Company Continues of the Louis  |
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| 1 How is Jana platform independent ?   |
| 2.71   |
| O when you compile java programs ving javar compiler it  |
| generates by techae  |
| o we can execute the byte code in any platform which has   |
| Jok intalled in Jana development kit.  |
| 1 with the help of Jum which is present in JDIC, the jave  |
| bytecode is trouslated into machine undesstandable code.   |
| byte code + Ivm makes Java platform independent.   |
| The second of th |
| (1) what is the byte code? How it is different from machine ude?   |
| (wde)  |
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| -> (1) Byk cock is a sort of command that is swited for sho  |
|  |
| Commonly known as people due to pertability that it  |
| (h/V) als  |
| 13) It is intermediate code compiled into a row-level code of from the source code for efficient execution by a slw interpols.   |
| from the source code for efficient execution by a slw interpols.   |
| grand : the market i shippy in shippy is a shippy in the form in the shippy in the shippy is the shippy in the shi |
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1 Explain various memory logical Palition? OA logical partition is wor division of a computers memory and storage into multiple sets of resources so that each set of resources can be operating operated independently with its own operating system instance & apply The number of logical partitions are used for different purpose such as database operative or client server operation or the Separate fest & modución environment (3) Each partitions can commissionicate with the other partitions as if other partitions is in a separate machine (2) What is the difference you jor file & Runtuble jor file; Tors like de se bound Rumable you file a. OTOr file is a jone apply O Runable jor file allows a which requires a command use to run joing danses without line to run a munable having to know class names JAR file can be directly and type them in command excented by double clicking prompt, rather The user can just double wick on the jar file and the program will find up 1 TAR is a package file fromat of A numable jor allows java dasses to be parded just typically used to aggregate many java class files associated like when a user clicks on into one file to distribute apple Sw. or lib. on The java, FOR EDUCATIONAL USE Sundaram" platform

(G) What is difference s/w Runnable jor file 8 exe file 9 Tax file cre like dead body. For file is the combination of compiled Java classes. @ exe-file one like living men. Executable jor file is also Cambinalian of compiled journ classes with main class. B How is C platform dependent language? 1) (1) C is a pertable mogramining language because it is not fied to any how of system D We can say it is how independent language or platform independent 3 That is why C is called 'Postable Canquege' (3) C programs closs not depend on actually but the executable file that is generated at the end for running the compression many depends on platform.

(5) When you use as your get other oth extension for executions le 16 Difference blu path & class path 9 Clan pats (1) Path variable is used to get the (1) Class path variable is used path of out jone slw tods like javac. exe, java. exe jung. doc classes. O Variable, name: poth 1 Variable name : class path Vaniable value: C. program Gies Vaniable, value: C. program
Jana jak 1.7.0.21 bin Fles Jana jre 1.6.0 jre 1.6.1 (Sundaram)