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Q1 Explain Bytecode.

Ans

The key that allows Java to solve both the security and portability problems just described is that the output of a Java Compiler is not executable code. Rather it is byterode.

-> Bytecode is highly optimized set of instruction designed to be executed by the Java ountime system which is called the Java virtual Machine (Jvm). In essence, the original Jvm was designed as an interpreter for bytecode.

Translating a Java Program into byte code
makes it much easier to run a program in
a wide variety of environments because
only the Jun meeds to be implemented for
each platform once the runtime package
exists for a given System any Java Program
can run on it.

Java Source code

Source code

Sava virtual Machine

Byte code loaded into Jun

Tava interpreter

Byte code loaded into Jun

Operating systems

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Q2 Discuss features of Java.

Following are the features of Java:

* simple

Java has a Concise, Cohesive set of features that makes it easy to learn and use.

* secure

Internet applications

* Portable

Prironment for which there is a Java gunhme System.

* object - oriented

Programming Philosophy. Object oriented



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* Robust

Dava encourage error free programming by being strictly typed and performing our time checks.

* Multithreaded

Java Provides integrated support for Multithreaded Programming

* Architecture Neutral

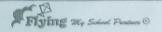
Java is not tied to a specific machine or OS Architecture.

* Inter Preted

Tava supports cross platform code through the use of Java byte code.

* High performance

The Java Bytecode is highly optimised for speed of execution.



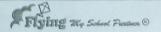
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* Distributed

environment of the Internet in mind.

* Dynamic

Java programs Carry with then
Substantial amounts of run time intormation
that is used to Versty and resolve accessess
to objects at runtime.



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23 Now applets in Java has a profound effect on internet?

Ans The internet helped catapult Java to
the forefront of programming and Java,
in two had a Profound effect on the
internet. In addition to simplifying webprograming in general, Java innovated a
new type of networked program called
"applet" that changed the way the online
world thought about content.

An applet is a special kind of Java Program that is designed to be toan smitted over the internet and auto mitically executed by a Java - compatible web browser. They are typically used to display data Provided by the server, handle uses input or provided simple functions that execute locally, rather than on server.

The creation of the applet changed internet programming because it expanded the universe of object that can move freely in cyberspace. An applet is dynamic self executing program such a program is an active agent on the client computor yet it is initiated by the server.

