- a.) Write notes on
  - (i) Java cand
  - (ii) J2ME

## Answers

## (i) Java Card

- Java Card referst to a software technology that allows Java-based application on small memory footprint devices (like smart cards)
- ~ Java Card aims at defining a smart card computing envisionment allowing the same Java Card applet to sun on different smoot cards.
- ~ It is the finisest of the Java platforms targeted for embedded devices, and is wide rused in SIM and ATM cards.
- ~ The main goals of Jana Card agre seawify and bortability.
- Thus Java Card uses a Java Card Virtuel machine to compile and sun bytecode init.

- Java Cand implements various aspects of technology like Applet Finewall, Data Emcap sulation, Englotography etc.
- ~ Further since these smart cards are powered extendly; they rely on persistent memory, applet isolation and atomicity.
  - ~ The latest release is the beta vertion of Javra Card 3.0 in the year 2008.

## (21) J2ME - Java 2 Platform, Micro Edition

- ~ It is a computing platform for development and deployment of portable code for embedded & mobile devices.
- ~ The mobile/embedded devices include micro-controllers, sensors, galeways, mobile phones, persoval digital assistants.

  TV set-top boxes, printers etc.
  - " For all truse and more JaME naturally uses Java programming language
  - ~ Designed orgivally by sun microsystems and later on aquired by Oracle, J2ME is the second finiest in the part of Java Software family.

- Today there are more than 2.1 billion J2ME enabled phones and PDAs, but as of 2008 all Java ME platform is currently restricted to JRE(Java Runtime Environment) 1.3.
- ~ Starting from Java ME 3.0 SDK, Het Beans supports
  Them in a single IDE.
- Third party implementations are ruidely resect by Windows Mobile Devices. The Linux-based Android OS uses a propriety version of Java that is similar but not idulical to J219E.