

CSS 2016

1) Write short note on GPS.

Answer:

GPS

Global positioning system is a network of ^{earth} middle-orbit satellites which provide positioning, navigation, and timing (PNT) services.

Structure :

1) Space segment

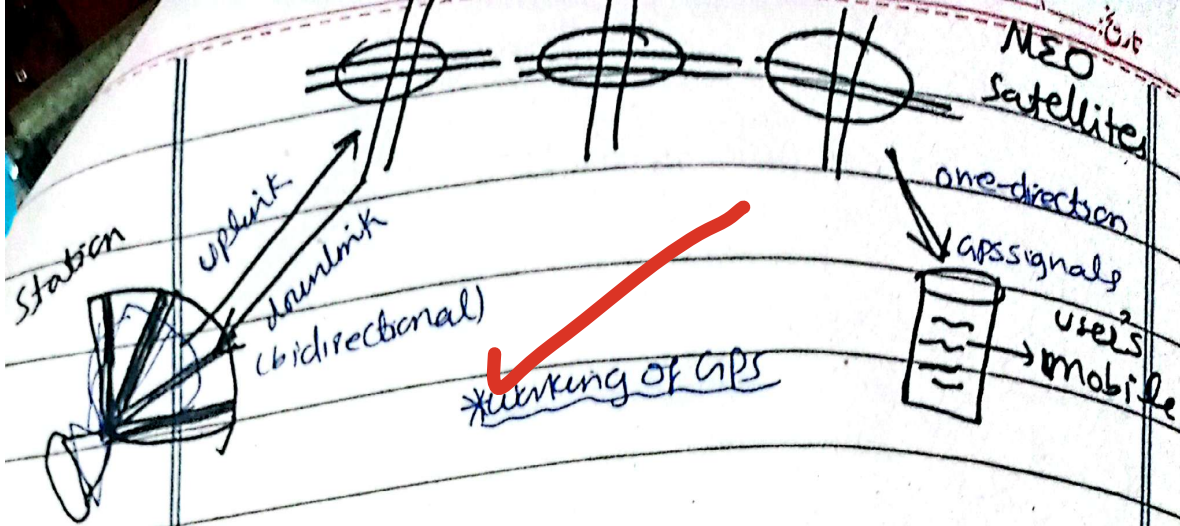
It consists of 24 Middle-Earth orbit satellites positioned in space.

2) Control segment

It consists of ground stations from where satellites are monitored and regulated.

3) User segment

It consists of receivers on users' mobile which catch electromagnetic radiations from satellites.



working of GPS

Advantages

① Real-Time location

It locates the users' position in real-time accurately that ~~is~~ is for free.

② 24/7 Global coverage

It works everywhere on earth providing updates in every weather condition.

③ Navigation services

GPS provides navigation services to drivers, pilots, cyclists and sailors.

④ Time Synchronization

It provides accurate time data that is important for telecommunication, power grids and financial networks (ATMs, stock markets).

good attempt!!!