

Q What is satellite, types and Functions?

Answer

Satellites

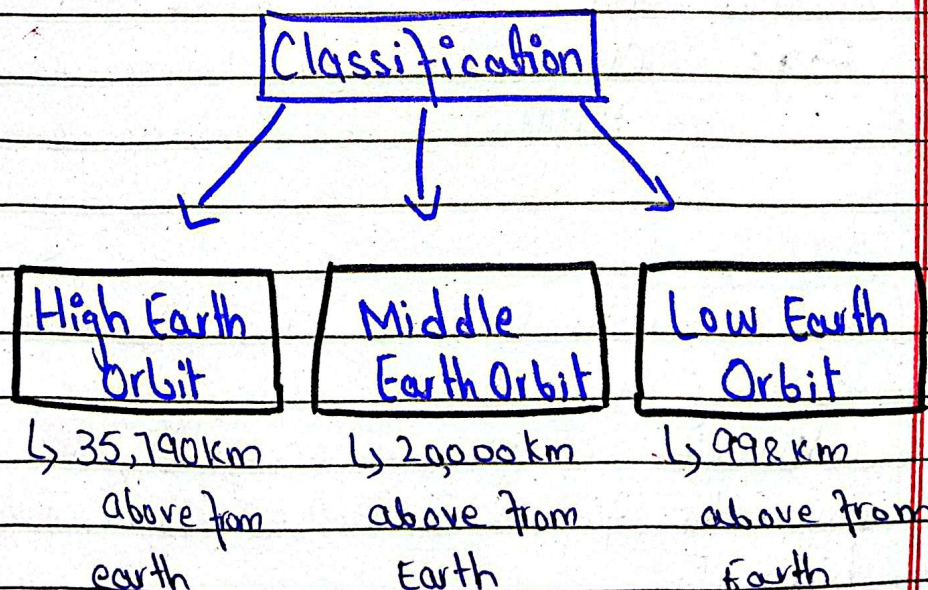
Any object that revolves around the earth in an orbit in elliptical order or in spherical form.

First launched satellite

⇒ In 1957, Soviet Union launched its first satellite, Sputnik-1

⇒ Later in 1958, US launched its own satellite SPARCO.

Types and Broader classification of satellites



Types :

1 Weather Statellite

These kind of statellite are use to inquire about weather condition, i.e rainfall prediction, storm and wind xange etc.

E.g: COSMOS , GOES etc

2 Communication Statellite

This type of statellite helps in transferring signals from one place to another. It helps in communication

E.g: Intelsat
PAKsat-1R

3 Astronomical

This kind of statellite helps humans in studying astronomy which include space, planets and stars etc.

E.g: Chandra X-ray telescope
Hubble Space telescope

4 Military

Such kind of statellites help military units to use ammunitions or artilleries in proper targets and also to figure out the terrorist hideouts

Applications :

1 Vital role in research and studies

Satellite actually helps the research bodies to study in depth astronomical units and to invest this knowledge for society future prosperity.

2 Aids Management Bodies

It helps the governance or other managing bodies to take an aerial view of the affected areas i.e. disaster-affected areas (earthquake, floods, landsliding), and then manage to recover these areas.

3 Weather Prediction

Meteorologists after analyzing the given data of satellite, issue alarming notices or warnings. This helps in reducing the widespread damage of the areas.

4 Data Communication

Signals transfer or data

Date: _____

M T W T F S

communication on land as well in naval system, also helps a lot. Satellite aid in transferring of data from one body to another.

Conclusion:

It can be said that Satellite is an entirely life regulating object, it has been so much integrated into our social life that now our every step whether it's planning trips or safeguarding our countries depends on satellite-given information.

X ————— X

Q What is Remote Sensing and its Application?

Remote Sensing / Global Navigation System

It is a kind of navigation system which helps the people to navigate time, velocity and other side activities i.e. weather forecasting, military and submarine navigation.

Controlled by: GPS

(Remote Sensing) technique has been introduced by U.S first, and is now still maintained

by United States

→ Global Navigation Satellites System (GNSS)

After U.S., every state launched their own navigation system, which helps them in their own fields, i.e. weather forecast etc.

But U.S. designed GPS system is widely used by most states.

For Example

Russia (GLONASS)

China Beidou (BDS)

→ Three Essential Components

Space Segment

It is the part of satellite which helps in observing data and storing of data. It consists of 32 satellites in which 24 are operational while 8 are spare.

→ Few orbits consist two or more, if any one of them stop working.

Control Segment

This part of system helps

navigating the data and also interpreting the observed data.

- It also helps in monitoring of the data.
- It interprets the given data and makes it feasible for the layman.

Ground Segment

This part is of use of an ordinary man. This segment helps the man to use the given data in form of different applications.

- Like GPS helps in navigating the direction and for this purpose apps are used widely.

→ Applications or Uses:

1. Weather Forecast

GPS system is used by forecaster to navigate or interpret the given data about whether conditions and to help the people to plan their lives.

2. Road Transport

It makes the lives of

humans very easy by helping them to find their places, with the tap of finger.

3 Aiding management Bodies

Governance and managing bodies who usually make rules and policies, ~~are~~ to regulate social lives, by using GPS (Observing affected areas) they can make rules and policies to solve the problem or deal with it.

Conclusion:

Global Navigation System (GPS) has clearly transformed our lives, it let humans to plan their days or events safe and securely. Military Units can excel in there mission by targeting their points in a right way and social lives could also be enhanced and leads to prosperity.