

04/01/21

Q Discuss the various consequences of space junk arising from the launch of satellites by the nations around the world.

Soln/Answer

Space Junk is also known as Space Debris. It is claimed that till the 1990 the total amount of satellite on the LEO Lower Earth Orbit is approx. 2.3 lakh and the in Middle Earth orbit (MEO) is 24 and in Higher Earth Orbit (HEO) approx. 12.

* Launching Satellites:

→ The satellites are launched by the various space agencies like Indian Space Research Organisation (ISRO), National Aeronautical and ~~Atmosphere~~ Space Association (NASA) etc.

The need is

* Why?

→ for Spying activities:

→ for w. to keep an eye on the movement of Enemy arm.

→ For Weather Forecasting:

• to identify the weather and the possibility of threat associated with it

→ For Television and Communication

• Television and Communication is possible due to satellite presence
Communication b/w the Ground Station and Satellite.

A Problems associated

→ The satellite has a limited time use

→ Satellite are launched with a specific time period due to their components and

→ Can not be used once expired

→ Being back to earth is not economic friendly due to other expenditures

→ They act as a junk or debris when left abandoned or after expiry,

★ Various Consequences are

→ ~~Affect~~ ~~Affect~~ Affect the other launches! others will be no space for other launch.

→ Technological revolution will be reduced.

• Many technology are associated with space, like communication (Structure internet connection & etc.)

→ Danger for human is

→ Danger for human when on the inside earth Asteroids may crash with satellite and fall on earth hit humans

→ People in ISS or International Space Station (ISS).

→ Can hit the ISS and cause damage and danger to the people

A Solution:-

→ need to reduce the no. of launch

→ need to collaborate b/w space countries for common mission or use

→ need to blast the satellite in fine particles

→ Can be deorbit the satellite from earth to other planet's orbit

Conclusion:

→ There is a need to Go for Sustainable Sp Development in Space Sector as well. There is also need to collaborate b/w the space association (either Country to Country or within Country) to reduce the no. of launches and the similar objective.