## 1) Compare Geostationary Satellites and Sun synchronous satellites.

Ans) Artificial satellites can be classified into two as geostationary and sun synchronous satellites.

Geostationary Satellites

These are the satellites that move in accordance with the earth's rotation.

- They orbit the earth at an elevation of about 36000 kilometres above the earth.
- One third of the earth comes under its field of view.
- As the movement of these satellites corresponds to the speed of rotation of the earth, it says constantly above a specific place on the earth.
- This helps in continuous data collection of an area.
- It is used in telecommunication and for weather studies.
- The INSAT series launched by India are geostationary satellites.

## Sun synchronous satellites

Sun synchronous satellites are the artificial satellites that revolve around the earth along the poles. Compared to the geostationary satellites, they travel at a lower elevation. The features of these are as follows:

- The orbit of these satellites is about 900 kilometres below the earth's surface.
- The field of view is less than that of the geostationary satellites.
- Repetitive data collection is possible.
- Used data for collection on natural resources, land use, groundwater, etc.
- These satellites are mainly used for remote sensing purposes.
- Those in the IRS series are Geostationary satellites.

## Which are the remote sensing satellites that India has launched? Find out with the help of internet.

Launched Date	Launching vehicle
Feb -06-2019	Ariane-5VA - 247
Dec - 19-2018	GSLV -FII
Dec- 05- 2018	Ariane-5VA-246
Nov - 14 - 2018	GSLVMk III- D2
Mar- 29-2018	GSLV - F08
April - 12-2018	PSLV - C41
June - 29 - 2017	Ariane -5VA-238
June - 05 - 2017	GSLVMk III- D1
May - 05 - 2017	GSLV - F09
Oct - 06-2016	Ariane -5VA-231
20 - Jan-2016	PSLV - C 31
Mar - 10- 2016	PSLV - C32
	Feb -06-2019 Dec - 19-2018 Dec - 05- 2018 Nov - 14 - 2018 Mar- 29-2018 April - 12-2018 June - 29 - 2017 June - 05 - 2017 May - 05 - 2017 Oct - 06-2016 20 - Jan-2016

Apr - 28-2016	PSLV - C 33
June-22-2016	PSLV - C 34
Nov - 11 - 2015	Ariane - 5VA-227
Aug - 27-2015	GSLV - D6
Mar - 28-2015	PSLV- C- 27
Dec - 07 - 2014	Ariane - 5VA-221
Jan - 05-2014	GSLV - D - 5
Oct - 16 - 2014	PSLV - C - 26
Aug - 30 - 2013	Ariane - 5VA-215
July - 01-2013	PSLV-C22
Sept - 29-2012	Ariane - 5VA-209
July-15-2011	PSLV - C-17
May 21- 2011	Ariane - 5VA-202
	June-22-2016  Nov - 11 - 2015  Aug - 27-2015  Mar - 28-2015  Dec - 07 - 2014  Jan - 05-2014  Oct - 16 - 2014  Aug - 30 - 2013  July - 01-2013  Sept - 29-2012  July-15-2011