



Q Source: https://www.wfindia.org/about_wwf/priority_species/threatened_species/brow_antlered_deer/

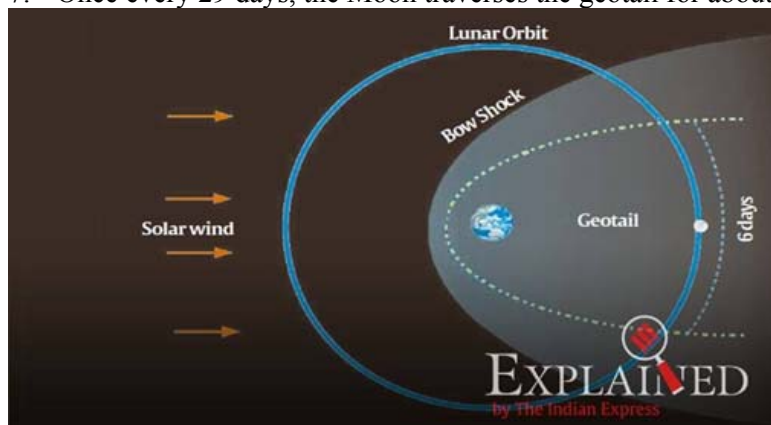
35. **Correct Answer : D**

Answer Justification :

Justification: A region in space that allows the best observations. The region exists as a result of the interactions between the Sun and Earth.

How is it formed?

1. The Sun emits the solar wind, which is a continuous stream of charged particles.
2. These particles are embedded in the extended magnetic field of the Sun. Since the Earth has a magnetic field, it obstructs the solar wind plasma.
3. This interaction results in the formation of a magnetic envelope around Earth.
4. On the Earth side facing the Sun, the envelope is compressed into a region that is approximately three to four times the Earth radius.
5. On the opposite side, the envelope is stretched into a long tail, which extends beyond the orbit of the Moon.
6. It is this tail that is called the **geotail**.
7. Once every 29 days, the Moon traverses the geotail for about six days.



Q Source: Based on UPSC papers

36. **Correct Answer : C**

Answer Justification :

Justification: El-Nino is merely an extension of the warm equatorial current which gets replaced temporarily by cold Peruvian current or Humbolt current

- The system involves oceanic and atmospheric phenomena with the appearance of warm currents off the coast of Peru in the Eastern Pacific and affects weather in many places including India.
- This current increases the temperature of water on the Peruvian coast by 10°C. This affects the local temperature, and thus ocean currents, wind pattern leading to rainfall changes. **El-Nino can thus cause distortion of the equatorial atmospheric circulation and irregularities in the evaporation of sea water.**