



- (c) Both 1 and 2
(d) Neither 1 nor 2

Ans: (a)

Explanation:

- S2: It is a militarized atoll **just south of the equator** in the central Indian Ocean.
- S1: It is an island of the British Indian Ocean Territory, an overseas territory of the United Kingdom.



Refer: Facts for Prelims: <https://www.insightsonindia.com/2021/08/06/insights-daily-current-affairs-pib-summary-6-august-2021/>

50. With reference to India's Geosynchronous Satellite Launch Vehicle (GSLV), consider the following statements:

1. It is a partially reusable space launch vehicle designed, developed, and operated by the Indian Space Research Organisation (ISRO).
2. It is a three-stage vehicle with a lift-off mass of 420 tonnes.
3. It has been designed mainly to deliver earth observation or remote sensing satellites.

Which of the given above statements is/are correct?

- (a) 1 only
(b) 2 and 3 only
(c) 2 only
(d) 1, 2 and 3

Ans: (c)

Explanation:

- S1: **Geosynchronous Satellite Launch Vehicle (GSLV)** is an expendable space launch (**not reusable**) vehicle designed, developed, and operated by the Indian Space Research Organisation (Isro) to launch satellites and other space objects into Geosynchronous Transfer Orbits.
- S2: It is a **three-stage vehicle** with a lift-off mass of 420 tonnes
 - The first stage comprises S139 solid booster with 138-tonne propellant and four liquid strap-on motors, with 40-tonne propellant. The second stage is a liquid engine carrying 40-tonne of liquid propellant. **The third stage is the indigenously built Cryogenic Upper Stage (CUS) carrying 15-tonne of cryogenic propellants.**
- S3: **PSLV is designed mainly to deliver earth observation or remote sensing satellites**, whereas, **GSLV has been designed for launching communication**