

**Q: Consider the following statement regarding Law Commission of India:**

1. Commission consists of chairman and four full time members.
2. The Commission was originally constituted in 1955.
3. The commission is a statutory body.

Choose the correct option from the codes given below:

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

Ans: a

Explanation:

- The Law Commission of India is a **non-statutory body**, constituted by the Government of India from time to time.
- The Commission was **originally constituted in 1955** and is re-constituted from time to time.
- The tenure of present Twenty-second Law Commission of India ends on 20th February, 2023.
- The various Law Commission have been able to make important contribution towards the progressive development and codification of Law of the country.
- The Twenty-second Law Commission will consist of the same composition, which is as under:
  - ❖ a full-time Chairperson;
  - ❖ four full-time Members (including Member-Secretary)
  - ❖ Secretary, Department of Legal Affairs as ex-officio Member;
  - ❖ Secretary, Legislative Department as ex officio Member; and
  - ❖ Not more than five part-time Members.

**Q: A Japanese startup is going to launch commercial space viewing balloon flights. Consider the following statement:**

1. It is filled with Neon gas.
2. The balloon is able to carry a pilot and a passenger.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: b

Explanation:

- Unlike a rocket or a hot air balloon, the Iwaya Giken vessel will be lifted by helium that can be largely reused, and flights will safely stay above Japanese territory or airspace.
- The balloon, which can carry a pilot and a passenger, would take off from a balloon port in Hokkaido, rise for two hours to as high as 25 kilometers (15 miles) and stay there for one hour before a one-hour descent.
- The drum-shaped plastic cabin is 1.5 meters (4.9 feet) in diameter and has several large windows to allow a view of space above or the Earth below.

**Q: Consider the following statement:**

1. France had signed a military agreement with Burkina Faso.
2. The agreement ended because of France failure to counter insurgency operation in Sahel region.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: c

Explanation:

- Recently, Burkina Faso announced an official end to the operations led by France in the country.
- France had signed a military agreement with Burkina Faso in 2018 to achieve stability against the threat of Islamist militant groups.
- France was asked to withdraw its troops from Burkina Faso months after it pulled out its troops from Mali. The primary reason behind the withdrawal is the failure of its counter insurgency operations in the Sahel region against Islamist groups.

**Q: Consider the following statement regarding the significance finding at Keeladi:**

1. It is located along the Vaigai river.
2. It has all the characteristics of an urban civilisation.
3. It provides the missing link between Iron age and Early Historic Period.

Choose the correct option from the codes given below:

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

Ans: d

Explanation:

- Keeladi is a tiny hamlet in the Sivaganga district in south Tamil Nadu. It is about 12 km south-east to the temple city of Madurai and is located along the Vaigai river.
- The excavations here from 2015 prove that an urban civilisation existed in Tamil Nadu in the Sangam age on the banks of the Vaigai river.
- Keeladi could also provide crucial evidence for understanding the missing links of the Iron Age (12th century BCE to sixth century BCE) to the Early Historic Period (sixth century BCE to fourth century BCE) and subsequent cultural developments.
- TNSDA affirms that Keeladi has all the characteristics of an urban civilisation, with brick structures, luxury items and proof of internal and external trade.

**Q: Researchers trying to uncover the secrets of Earth's geology have revealed the fifth layer of the planet. Consider the following statement:**

1. Crust, mantle, outer core, and inner core are the identified structure of the Earth.
2. Anisotropy is used to describe how seismic waves speed up or slow down through the material of the Earth's inner core.
3. New structure lies between outer and inner core.

Choose the correct option from the codes given below:

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

Ans: a

Explanation:

- The researchers analysed data from about 200 magnitude-6 and above earthquakes from the last decade.
- This layer is a solid 'metallic ball' that sits within the center of the inner core.
- So far, four layers of Earth's structure had been identified. This includes - the crust, mantle, outer core, and inner core. The new findings indicate a fifth layer beneath that.
- The team assessed the seismic waves that travel directly through the Earth's center and 'spit out' at the opposite side of the globe to where the earthquake was triggered. The waves then travel back to the source of the quake.
- The team studied the earthquake, which originated in Alaska. The waves bounced off somewhere in the South Atlantic Ocean, before traveling back to Alaska.
- The researchers studied the anisotropy of the iron-nickel alloy that comprises the inside of the Earth's inner core.
- Anisotropy is used to describe how seismic waves speed up or slow down through the material of the Earth's inner core, depending on the direction in which they travel.