

Q: Consider the following statement:

1. Leniency plus' norms is a new cartel detecting tool and sheds light on how the competition watchdog.
2. This "leniency plus" regime is already recognised in jurisdictions like the UK, US, Singapore, and Brazil.
3. Competition Commission of India is a non-constitutional body of the Government of India.

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:

- Leniency plus' norms is a new cartel detecting tool and sheds light on how the competition watchdog intends to operationalize it.
- The "Leniency Plus" regime was part of the Competition (Amendment) Act 2023
- This "leniency plus" regime is already recognised in jurisdictions like the UK, US, Singapore, and Brazil.
- Competition Commission of India is a statutory body of the Government of India, was established in March 2009 under the Competition Act, 2002.
- The goal of CCI is to create and sustain fair competition in the economy that will provide a 'level playing field' to the producers and make the markets work for the welfare of consumers.

Q: Consider the following statement regarding Lemru Elephant reserve:

1. It is located in Madhya Pradesh.
2. It seeks to give elephants a permanent habitat while also minimising property damage.
3. There are 33 notified Elephant Reserves (ERs) in the country.

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: b

Explanation:

- Lemru Elephant reserve is located in the Korba district of Chhattisgarh.
- It seeks to give elephants a permanent habitat while also minimising property damage and human-animal conflict.
- The reserve is part of an elephant corridor that connects Lemru (Korba), Badalkhol (Jashpur), Tamorpingla (Surguja).
- Elephant reserves in India-
- There are 33 notified Elephant Reserves (ERs) in the country, spread over 14 states.

Q: Consider the following statement regarding Infantile Hypophosphatasia:

1. It is a rare genetic disease in which the patient's bones and teeth demineralise, making her fragile and prone to fractures.
2. The initial problem may be the baby's failure to gain weight and grow as expected.

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:

- Infantile Hypophosphatasia is a rare genetic disease in which the patient's bones and teeth demineralise, making her fragile and prone to fractures.
- It may have no noticeable abnormalities at birth, but complications become apparent within the first six months of life.
- The initial problem may be the baby's failure to gain weight and grow as expected, referred to as "failure to thrive."
- Sometimes the skull bones fuse, called craniosynostosis, which can lead to a deformed head (brachycephaly).

Q: Consider the following statement regarding Optoelectronics:

1. It is the study and application of light-emitting or light-detecting devices.
2. It is widely considered a sub-discipline of photonics.
3. It is largely based on semiconductor materials.

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:

- Optoelectronics is the study and application of light-emitting or light-detecting devices.
- It is widely considered a sub-discipline of photonics. Photonics refers to the study and application of the physical science of light.
- Optoelectronics is a fast-emerging technology field that consists of applying electronic devices to sourcing, detection, and control of light.
- It is largely based on semiconductor materials. These exhibit suitable bandgap energies for absorbing near-infrared and visible light, and their electric conductivity (albeit not perfect) is also essential for such applications.

Q: Consider the following statement regarding *Laodracon carsticola*:

1. It has been discovered to live only in the karstic massifs.
2. They are typically omnivores.
3. It is a newly discovered species of bats.

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:

- *Laodracon carsticola* is a newly discovered species of dragon lizard.
- It has been discovered to live only in the karstic massifs of Khammouan Province, central Laos.
- It possesses extraordinary camouflage abilities.
- It belongs to the mainland Asian subfamily Draconinae. This subfamily contains around 256 species that all live across Asia.
- The lizards within this family are typically omnivores, with the species spread across tree-living and ground-living habitats.

