

Q: Recently, the High-level Policy Commission launched the ‘Getting India to Net Zero’ report. Consider the following statement:

1. India will witness net increase in employment opportunities.
2. India will need around USD 10.1 trillion in cumulative economy-wide investment to meet its target.
3. India will achieve net zero emission by 2050.

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:

- A modelling and research commissioned by the High-level Policy Commission on Getting Asia to Net Zero, achieving net zero emissions by 2070 could boost India's economy by as much as 4.7 per cent above the projected baseline growth in GDP terms by 2036 worth a total of USD 371 billion.
- The transition will see a net increase in employment opportunities, creating 15 million jobs beyond a baseline scenario by 2047.
- Yet, achieving net zero emissions will require India to grapple with a series of challenges, the foremost being finance: according to the modelling, India will need around USD 10.1 trillion in cumulative economy-wide investment to meet its 2070 target.

Q: Consider the following statement:

1. Enchanted Lake is in the Jazero crater located in Moon.
2. The lake is named after a landmark in Alaska’s Katmai National Park.
3. The rock of this lake is igneous in origin.

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:

- After successfully taking 12 samples from the surface of Mars, the Perseverance rover has set its eyes on the Enchanted Lake in the Jazero crater.
- The rover is poised to drive to Enchanted Lake, named after a landmark in Alaska’s Katmai National Park and Preserve.
- It is a fan-shaped collection of rocks and sediment at the western edge of Jezero Crater, the delta formed at the convergence of a Martian river and a crater lake billions of years ago.
- While the rocks, igneous in origin, having formed billions of years ago from molten rock that cooled either underground or after volcanic eruptions, can offer a great deal of information about the interior of Mars.

Q: Consider the following statement:

1. Candidiasis is a fungal infection.
2. The gene called CSA6 has been identified in Candida albicans.

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:

- A newly identified gene can hold the key to prevent fungal infection Candidiasis that often affects intensive-care unit (ICU) patients, cancer patients and patients receiving immunosuppressive therapy.
- The gene called CSA6 has been identified in *Candida albicans* a fungal species infamous for causing high rates of morbidity and mortality under certain immuno-compromised conditions such as AIDS or during cancer treatment.

Q: Which of the following animal has been extinct in China?

- a) Giant Panda
- b) Asian Elephant
- c) Chinese Giant Salamanders
- d) Dugong

Ans: d

Explanation:

- Dugong, also known as the sea cow, is now extinct in China.
- With the destruction of their natural habitat and historical hunting, no Dugong has been sighted in China since 2008.
- This is the first functional extinction of a large mammal in China's coastal waters.

Q: Consider the following:

1. Steller's sea cow
2. Caribbean monk seal
3. Crested Ibis

Which among the following are the extinct sea animals?

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

Ans: a

Explanation:

Some other extinct ocean animals:

- The **Steller's sea cow** was a member of the family Sirenia and related to manatees and Dugongs. It was found around the Commander Islands in the Bering Sea and was hunted for its fat and meat till it was declared extinct by 1768.
- The **sea mink, found near New England coast**, was wanted for its fur. Related to the American mink and a member of the *Mustela* genus, the sea mink was classified as extinct in 1880.
- The **Caribbean monk seal**, likely to be likely extinct by the mid-20th Century, was the first seal to lose its existence due to human actions, the United States government scientists had said in 2018, as per Marine Conservation report.