

Q: Consider the following statement regarding Khondalite Stones and choose the incorrect option:

- It was widely used as a pillar of Jagannath Temple in Puri.
- State government under ABADHA scheme will transform Puri in World Heritage City in three years.
- Stones are proposed to be used widely to maintain aesthetic value.
- Sukhuapada was the biggest of six Khondalite stone blocks.

Ans: a

Explanation:

- It has been found right in the middle of a **mining site in Odisha's Jajpur district** from where **Khondalite stones were supplied for the beautification project around the 12th century** Shree Jagannath Temple in Puri.
- Khondalite stones were widely used in ancient temple complexes. The State government had come up with an ambitious plan to spend ₹3,208 crore under the **Augmentation of Basic Amenities and Development of Heritage and Architecture (ABADHA) scheme** in three years to **transform Puri into a world heritage city**.
- Khondalite stones are proposed to be used widely to maintain aesthetic value of some projects such as the heritage security zone, the Jagannath Ballav pilgrim centre, Puri lake development project, the Atharnala heritage project and the Matha Development Initiative.
- Sukhuapada was the biggest of six Khondalite stone blocks** reserved for the OMC. While Khondalite mining is being undertaken across 78.3 acres at Sukhuapada, other sites include Teligarh (27.5 acres), Gobindpur (20.3 acres), Chandia (4 acres), Kundakundi Kunda stone quarry (4.67 acres) and Kurumpada decorative stone quarry (1.67 acres) in Khordha district.

Q: Consider the following statement regarding CD4 immune cell:

- This cell in human body is primary target of Cancer.
- The virus enters the body through the CCR5 receptors on the surface of CD4 immune cells.
- Just one per cent of the world's population has the CCR5-delta 32 mutation.

Choose the correct option from the codes given below:

- 1 and 2
- 2 and 3
- 1 and 3
- 1, 2 and 3

Ans: b

Explanation:

- The CD4 immune cells in the human body are the primary targets of HIV, which makes it harder for a person to fend against secondary infections.
- The HIV virus enters the body through the CCR5 receptors on the surface of CD4 immune cells. However, the CCR5-delta 32 mutation blocks the formation of these surface-bound HIV viral receptors, by effectively closing the passage.
- Just one per cent of the world's population has the CCR5-delta 32 mutation in two copies, which means they acquired it from both parents. 20 per cent of people, mostly those of European heritage, have the mutation in one copy. Those who carry the mutation are therefore almost resistant to the virus.

Q: Consider the following statement regarding Blue Economy:

- It promotes the sustainable use of marine and freshwater resources while conserving their environments.
- It is being intrinsically linked to the Sustainable Development Goal (SDG) 14

Choose the correct option from the codes given below:

- 1 Only
- 2 Only
- 1 and 2
- None of the above

Ans: c

Explanation:

- The blue economy economic system promotes the sustainable use of marine and freshwater resources while conserving their environments.
- It encompasses policies and operational dimensions aimed at producing food and energy, supporting livelihoods, and driving economic advancement and welfare.
- Blue Economy while being intrinsically linked to the Sustainable Development Goal (SDG) 14, which focuses on conserving and using oceans, seas, and marine resources for sustainable development shall also be viewed from a holistic perspective of SDG 13 - Climate Action; SDG 6 - Clean Water; SDG 7- Clean and Renewable Energy.

Q: Consider the following statement regarding Yellow River:

1. It is the sixth-longest river in the world.
2. This River is also known as Huang He.
3. It originates in the province of Qinghai, flows through the Loess Plateau.

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:

- The Yellow River is the sixth-longest river in the world and is also the most sediment-laden.
- Also known as Huang He, it originates in the province of Qinghai, flows through the Loess Plateau, where it takes sediment that gives its waters their characteristic yellow colour. It then flows across the flat North China Plain before draining into the Bohai Sea, a part of the Yellow Sea.

Q: Consider the following statement regarding SAI20:

1. It is a group of Supreme Audit Institutions of G20 countries.
2. The establishment of SAI20 was initiated by Indonesia during its 2022 G20 Presidency.
3. Japan will take its chairmanship in Dec 2022.

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:

- SAI20 is a group of Supreme Audit Institutions of G20 countries.
- The Supreme Audit Institution is the country's official top audit institute or agency. In India, it is CAG.
- The establishment of SAI20 was initiated by Indonesia during its 2022 G20 Presidency.
- It aims to contribute, among other things, to the transparency and accountability of good governance.
- With India's assumption of the G20 presidency on December 1, 2022, CAG of India, i.e., SAI India shall take the chairmanship of SAI20.