

Q: Consider the following statement regarding Electromagnetic Ion Cyclotron waves:

1. They are identified in Antarctica.
2. Antarctica plays an important role in the precipitation of killer electrons.
3. They are found in the stratosphere.

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 Electromagnetic Ion Cyclotron waves identified in Antarctica play an important role in the precipitation of killer electrons, which have speed close to the speed of light.
- The waves are formed when low-energy ions in the magnetosphere interact with electromagnetic fields, causing the ions to spiral along the magnetic field lines.
- Found in the magnetosphere, EMIC waves accelerate electrons to very high energies and can cause the particles in the radiation belts to scatter, accelerate, and precipitate into the Earth's atmosphere, which can lead to changes in the distribution and intensity of the radiation belts.

Q: Consider the following statement regarding Dengue:

1. It is transmitted through single species of Aedes mosquitoes.
2. It is a tropical borne disease.
3. Dengue mosquitoes also transmit chikungunya, yellow fever and Zika infection.

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:

- Dengue is a mosquito-borne tropical disease caused by the dengue virus (Genus Flavivirus), transmitted by several species of female mosquito within the genus Aedes, principally Aedes aegypti.
- This mosquito also transmits chikungunya, yellow fever and Zika infection.

Q: Consider the following statement regarding World Heritage Day:

1. It is celebrated to preserve human heritage and to recognize all the efforts of relevant organisations.
2. It focusses to support equitable protection of vulnerable communities through climate action.

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:

- World Heritage Day is celebrated every year on 18 April to preserve human heritage and to recognize all the efforts of relevant organisations.
- The theme offers the opportunity to respond to questions regarding learning about traditional ways of knowing and knowledge systems in relation to climate action, and how to use a cultural heritage focus to support equitable protection of vulnerable communities through climate action, while responding to the UN Decade of Action.

Q: Consider the following statement:

1. Yemen had signed the Stockholm Agreement in December 2018.
2. Hudayah agreement, the prisoner exchange agreement, and the Taiz agreement were part of this agreement.
3. Hodeidah, an important port in Yemen.

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 warring parties in control of parts of Yemen had signed the Stockholm Agreement in December 2018 whereby they had committed to freeing conflict-related detainees.
- The agreement brokered by the United Nations had three main components — the Hudayah agreement, the prisoner exchange agreement, and the Taiz agreement.
- The Hudayah agreement included a ceasefire in the city of Hodeidah and other clauses like no military reinforcements in the city and strengthened UN presence.
- In November 2018, hundreds of people were killed in clashes in Hodeidah, an important port in Yemen, when government loyalists supported by a Saudi-led coalition launched an attack to oust the Iran-backed Houthi rebels from the Red Sea city.
- The Taiz agreement includes the formation of a joint committee with participation from civil society and the UN.

Q: Consider the following statement:

1. The first and only civic body election in Nagaland was held in 2004.
2. Most of the traditional tribal and urban organisations oppose the 33% reservation of seats for women.
3. Mizoram is the only State where Urban Local Bodies (ULB) seats are not reserved for women.

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:

- In March 2023, the Nagaland State Government preferred to be in contempt of the Supreme Court than face the wrath of the community-based organisations by repealing the Nagaland Municipal Act of 2001.
- Nagaland is arguably the only State where ULB seats are not reserved for women as mandated by clause IV of the 74th Amendment to the Constitution of India.
- Most of the traditional tribal and urban organisations oppose the 33% reservation of seats for women as they argue that such reservation would violate the special provisions granted by Article 371A of the Constitution to Nagaland.
- The first and only civic body election in Nagaland was held in 2004 without any reservation of seats for women.