

**Q: Consider the following statement regarding Exclusive Economic Zone (EEZ):**

1. It is an area of the ocean extending up to 200 nautical miles.
2. A coastal nation has sovereign rights for the purpose of exploring, exploiting, conserving, and managing the natural resources of the seabed, subsoil, and waters above it.
3. Other States have no right for their ships and aircraft to traverse the EEZ and its airspace and to lay cable and pipelines.

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 concept of an exclusive economic zone (EEZ) was adopted through the 1982 United Nations Convention on the Law of the Sea (UNCLOS).
- EEZ, as defined under UNCLOS, is an area of the ocean extending up to 200 nautical miles (370 km) immediately offshore from a country's land coast in which that country retains exclusive rights to the exploration and exploitation of natural resources.
- Under international law, within its defined EEZ, a coastal nation has:
  - ❖ Sovereign rights for the purpose of exploring, exploiting, conserving, and managing the natural resources of the seabed, subsoil, and waters above it.
  - ❖ Jurisdiction is provided for in international law with regard to the establishment and use of artificial islands, installations, and structures; marine scientific research; and the protection and preservation of the marine environment.
  - ❖ Other rights and duties are provided for under international law.
  - ❖ Other States have the right for their ships and aircraft to traverse the EEZ and its airspace and to lay cable and pipelines.

**Q: Consider the following statement regarding Rungia longistachya:**

1. It was discovered from Kodaikanal hills.
2. The plant is an herb and grows on the margins of evergreen forests.

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:

- Rungia longistachya belongs to the family Acanthaceae.
- It was discovered from the moist places of the Anamalai region near the Idukki dam site in Kerala.
- The plant is an herb and grows on the margins of evergreen forests.
- Only eleven species of Rungia have been reported from the Western Ghats, and the newly discovered plant has a distinct, narrow, long spike with a long slender peduncle and light pinkish-white flowers.

**Q: Consider the following statement regarding Zorawar Light Tank:**

1. It is an indigenously designed and developed Light Tank.
2. It is designed to operate in varying terrains, from high-altitude areas and marginal terrains to island territories.

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:

- Zorawar Light Tank is an indigenously designed and developed Light Tank.
- It was developed by the Defence Research and Development Organisation (DRDO) in collaboration with Larsen & Toubro Limited.
- It is designed to operate in varying terrains, from high-altitude areas and marginal terrains to island territories.
- It will be highly transportable for rapid deployment to meet any operational situation.

**Q: Consider the following statement regarding Epilepsy:**

1. It is a brain disease where nerve cells don't signal properly.
2. The brain's electrical rhythms have a tendency to become imbalanced, resulting in recurrent seizures.
3. Seizures can be classified into two broad categories.

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:

- Epilepsy is a brain disease where nerve cells don't signal properly, which causes seizures.
- A seizure is usually defined as a sudden alteration of behaviour due to a temporary change in the electrical functioning of the brain.
- Normally, the brain continuously generates tiny electrical impulses in an orderly pattern. These impulses travel along neurons—the network of nerve cells in the brain—and throughout the whole body via chemical messengers called neurotransmitters.
- In epilepsy, the brain's electrical rhythms have a tendency to become imbalanced, resulting in recurrent seizures.
- In patients with seizures, the normal electrical pattern is disrupted by sudden and synchronized bursts of electrical energy that may briefly affect their consciousness, movements, or sensations.
- Seizures can be classified into two broad categories, depending on the location of abnormal brain activity.

**Q: Consider the following statement regarding Measles:**

1. It is caused by a virus in the paramyxovirus family.
2. The virus infects the respiratory tract.
3. It is a non-contagious disease.

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:

- Measles is a highly contagious and serious airborne disease.
- It is caused by a virus in the paramyxovirus family and is normally passed through direct contact and the air.
- The virus infects the respiratory tract and then spreads throughout the body, causing severe disease, complications, and even death.