

Q: Consider the following statement regarding Tellurium:

1. It is a semi-metallic, lustrous, crystalline, brittle, silver-white element.
2. It is one of the only elements that readily combine with gold (Au).
3. It has the properties of only nonmetals.

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:

- Tellurium is a semi-metallic, lustrous, crystalline, brittle, silver-white element.
- Atomic Number is 52
- It has the properties of both metals and nonmetals.
- It forms many compounds corresponding to those of sulphur and selenium.
- When burned in the air, tellurium has a greenish-blue flame and forms tellurium dioxide as a result.
- Tellurium is a semiconductor material and is slightly photosensitive.
- It is one of the only elements that readily combine with gold (Au).
- Tellurium is sometimes found free in nature.

Q: Consider the following statement regarding Central Reserve Police Force (CRPF):

1. It functions under the authority of the Ministry of Defence.
2. Originally constituted as the Crown Representative Police in 1939.
3. CRPF was raised as a sequel to the political unrest and agitations in the then princely States 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: b

Explanation:

- Central Reserve Police Force (CRPF) is the premier central police force of the Union of India for internal security.
- It functions under the authority of the Ministry of Home Affairs (MHA) of the Government of India.
- Originally constituted as the Crown Representative Police in 1939, it is one of the oldest Central paramilitary forces (now termed the Central Armed Police Force).
- CRPF was raised as a sequel to the political unrest and agitations in the then princely States of India following the Madras Resolution of the All-India Congress Committee in 1936 and the ever-growing desire of the Crown Representative to help the vast majority of the native States to preserve law and order as a part of imperial policy.

Q: Consider the following statement regarding Protection of Women from Domestic Violence Act 2005 (DV Act):

1. It was enacted by Parliament in 2005 and extends to the whole of India.
2. Harassment by way of dowry demands is also covered under the definition of domestic violence.

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:

- Protection of Women from Domestic Violence Act 2005 (DV Act) was enacted by Parliament on September 13, 2005, and extends to the whole of India.
- It is basically meant to provide protection to a wife or female live-in partner from violence at the hands of the husband, a male live-in-partner, or his relatives.
- Domestic violence under the Act includes actual abuse or the threat of abuse, whether physical, sexual, verbal, emotional, or economic.
- Harassment by way of dowry demands is also covered under the definition of domestic violence.

Q: Consider the following statement regarding Odonata Species:

1. It is one of the ancient orders of insects.
2. They are globally distributed, from the tropics to the boreal forests of Siberia and North America.
3. They are found in a variety of habitats, such as freshwater environments like ponds, rivers and lakes.

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:

- Odonata is an insect order consisting of three groups: Anisoptera(which includes dragonflies), Zygoptera (which includes damselflies), and Anisozygoptera (a relict group represented by only two living species).
- It is one of the ancient orders of insects.
- Odonata is a diverse group, with over 6,000 known species.
- Distribution:
 - They are globally distributed, from the tropics, where they are most numerous and varied, to the boreal forests of Siberia and North America.
 - They are also found throughout the Southern Hemisphere, with the exception of Antarctica.
 - India is highly diverse, with more than 500 known species.
 - They are found in a variety of habitats, such as freshwater environments like ponds, rivers, and lakes, and are typically associated with bodies of water during their larval stage.

Q: Consider the following statement regarding Dead Sea:

1. It lies to the east of the Mediterranean Sea and south of the Sea of Galilee.
2. It lies in the Jordan Rift Valley.
3. It is bordered by Jordan and Syria.

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 Dead Sea, also called the Salt Sea, is a salt lake bordering Jordan to the east and Israel to the west.
- However, the western shore's southern half belongs to Israel, while the shore's northern half is in the West Bank, an area claimed by both Israel and Palestine.
- It lies to the east of the Mediterranean Sea and south of the Sea of Galilee.
- It lies in the Jordan Rift Valley and is fed mainly by the Jordan River, which enters the lake from the north.
- It does not have an outlet, and so it loses its water mainly through evaporation.

