

Q: Consider the following statement regarding Phreatomagmatic eruption:

1. A new island near Japan's Ogasawara island chain was formed by phreatomagmatic eruption.
2. Deposits from phreatomagmatic eruptions are thought to be better classified and finer-grained than those from magmatic eruptions.
3. It is an eruption that involves magma only.

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 new island near Japan's Ogasawara island chain was formed by phreatomagmatic eruption.
- It is an eruption that involves both magma and water. It typically interacts explosively leading to concurrent ejection of steam and pyroclastic fragments.
- Phreatomagmatic ash is formed by the same mechanism over a wide range of basic and acidic compositions. A blocky and uniform crust with low vesicle content is formed.
- Deposits from phreatomagmatic eruptions are thought to be better classified and finer-grained than those from magmatic eruptions. This is the result of higher fragmentation of phreatomagmatic eruptions.

Q: Consider the following statement regarding Attenborough's long-beaked echidna:

1. It lives in Alps Mountain.
2. Echidnas are nocturnal and shy.
3. Conservation status by IUCN Red List is Critically Endangered

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:

- Attenborough's long-beaked echidna lives in the Cyclops Mountains, which are near the cities of Sentani and Jayapura in the Indonesian province of Papua.
- Echidnas are nocturnal and shy, making them difficult to find at the best of times.
- It appears so unlike other mammals is because it is a member of the monotremes -- an egg-laying group that separated from the rest of the mammal tree-of-life about 200 million years ago.
- Conservation status by IUCN Red List is Critically Endangered

Q: Consider the following statement regarding Lake Titicaca:

1. It is the highest navigable water body in the world.
2. It is a designated Ramsar Site of International Importance.

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:

- Lake Titicaca is the highest navigable water body in the world, located in the Andes Mountains of South America.
- It lies on the border between Peru to the west and Bolivia to the east. It is the second-largest lake in South America (after Maracaibo).
- More than 25 rivers empty their waters into Titicaca; the largest, the Ramis, drains about two-fifths of the entire Titicaca Basin.
- Forty-one islands rise from Titicaca's waters, the largest of which, Titicaca Island.
- Lake Titicaca is a designated Ramsar Site of International Importance.

Q: Consider the following statement regarding Non-melanoma skin cancer:

1. It refers to a group of cancers that develop in the upper layers of the skin.
2. The main cause is ultraviolet light, which comes from the sun and is used in sunbeds.
3. It is more common in older people, but younger people can also get it.

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:

- Non-melanoma skin cancer refers to a group of cancers that develop in the upper layers of the skin.
- The main types are basal cell carcinoma (BCC) and squamous cell carcinoma (SCC).
- The main cause is ultraviolet light, which comes from the sun and is used in sunbeds.
- It is more common in older people, but younger people can also get it.
- The main symptom of non-melanoma skin cancer is a growth or unusual patch on the skin, but it's most common in areas exposed to the sun, such as head, face and ears neck and shoulders etc.

Q: Consider the following statement regarding Kali Tiger Reserve:

1. It was earlier known as Dandeli-Anshi Tiger Reserve.
2. Forests are primarily moist deciduous and semi-evergreen.
3. It is located in Kerala.

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:

- Kali Tiger Reserve, earlier known as Dandeli-Anshi Tiger Reserve is located in the central portion of the Uttara Kannada (North Canara) district of Karnataka state.
- It comprises two important protected areas of the region, viz., Dandeli Wildlife Sanctuary and Anshi National Park. They are contiguous to each other and form a single tract of protected area located in the biologically sensitive Western Ghats.
- The Kali River flows through the tiger reserve, and hence the name.
- Forests are primarily moist deciduous and semi-evergreen, with excellent patches of evergreen forests in the westernmost parts.