Q: Consider the following statement regarding Jaderi namakatti:

- 1. These are clay sticks that are white in colour.
- 2. Namakatti is made up of the rich deposit of hydrous silicate minerals.
- 3. The production of namakatti does not depends upon sunlight.

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:

- Jaderi namakatti are clay sticks that are white in colour, usually available in finger-like shape with a smooth texture
- Jaderi is a small village in Tiruvannamalai district of Tamil Nadu.
- There are around 120 families in Cheyyar taluk whose primary occupation has been the making of namakatti for more than hundreds of years now.
- Namakatti is made up of the rich deposit of hydrous silicate minerals that form fine grain particles of clay.
- The clay is processed and shaped in a finger like structure.
- The production of namakatti depends on the climatic condition as it needs a lot of sunlight to dry.
- It is used to adorn the foreheads of idols, men, and temple elephants as well as traditionally to treat stretch marks caused by by childbirth.

Q: Consider the following statement regarding Kaziranga National Park:

- 1. Alpine forest is the important features.
- 2. It is part of the Eastern Himalayan biodiversity hotspots.
- 3. It is home to the One-horned rhinoceros.

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:

- Kaziranga National Park is located in the state of Assam.
- It is part of the Eastern Himalayan biodiversity hotspots.
- It is also a UNESCO World Heritage Site and houses two-thirds of the total world population of greater one-horned rhinoceros.
- It is a mix of eastern wet alluvial grasslands, semi-evergreen forests and tropical moist deciduous forests.
- It is primarily famous for its dense and tall elephant grasses intermixed with small swamplands.

Q: Consider the following statement regarding Tilapia parvovirus:

- 1. It is a single-stranded DNA virus.
- 2. This virus was localized in the gills, heart, brain, liver and muscles of tilapia.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Explanation:

- Tilapia parvovirus (TiPV) is a small, nonenveloped, single-stranded DNA (ssDNA) virus.
- It was first reported in China in 2019 and Thailand in 2021. India is the third country to report the occurrence of TiPV.
- This virus was localized in the gills, heart, brain, liver, pancreas, spleen, intestine, kidney, eyes, and muscles of tilapia.

Q: Consider the following statement regarding Pallikaranai marshland:

- 1. It is a freshwater marsh and partly saline wetland.
- 2. The site is threatened by invasive and non-native species.
- 3. It is one of the Ramsar sites from 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: d

Explanation:

- Pallikaranai marshland is a freshwater marsh and partly saline wetland situated about 20 kilometres south of the city of Chennai, Tamil Nadu.
- On its eastern periphery, the Marsh is flanked by the Buckingham Canal.
- The diverse ecosystem of the marshland supports some 115 bird species, ten mammals, 21 reptiles, ten amphibians, 46 fish, nine molluscs, five crustaceans, and seven butterfly species.
- These include notable species such as Russell's viper (Daboia siamensis) and birds such as the glossy ibis (Plegadis falcinellus), grey-headed lapwings (Vanellus cinereus) and Pheasant-tailed jacana (Hydrophasianus chirurgus).
- Apart from its biodiversity value, the wetland also plays a vital role in the prevention of flooding for the city of Chennai, soaking up water during wet periods and releasing it during dry spells.
- The site is threatened by invasive and non-native species, household sewage, urban wastewater and droughts.
- It is one of the Ramsar sites from India.

Q: Consider the following statement regarding Hailstorm:

- 1. Hail is a type of solid rain made up of balls or lumps of ice.
- 2. They are most common in the midlatitudes.
- 3. Highly developed Cirrus clouds need to be present.

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:

- Hail is a type of solid rain made up of balls or lumps of ice.
- Storms that produce hail that reaches the ground are known as hailstorms.
- They typically last for no more than 15 minutes but can cause injuries to people and damage buildings, vehicles, and
- They are most common in the midlatitudes.
- Hailstorms can sometimes be accompanied by other severe weather events, such as cyclones and tornadoes.
- Size: The size of hailstones can vary widely, from small pellets less than 1/4 inch in diameter to larger stones measuring several inches in size.

•	Highly developed Cumulonimbus clouds need to be present. These are the massive anvil or mushroom-shaped clouds that are seen during thunderstorms, which can reach heights of up to 65,000 feet.