

**Q: Consider the following statement regarding Electric eel:**

1. It is a fish that only lives in freshwater areas.
2. They emit a weak electric signal, which they use like radar to navigate, to find a mate, and to find prey.
3. IUCN status 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: a

Explanation:

- The scientific name of Electric eel is *Electrophorus Electricus* which is a fish that only lives in freshwater areas.
- They can release up to 860 volts, which is enough to run a machine.
- They emit a weak electric signal, which they use like radar to navigate, to find a mate, and to find prey.
- It has three specialized electric organs—the main electrical organ, the Hunter's organ and the Sachs' organ which make up about 80 percent of this fish's body.
- Its range spans across Brazil, the Guianas, Suriname, Venezuela, Colombia, Ecuador and Peru.
- Conservation status of IUCN is least concern.

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

1. It is caused by virus.
2. It is a Sexually Transmitted Infection.
3. Syphilis spreads from person to person through direct contact with these sores.

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:

- Syphilis is a Sexually Transmitted Infection (STI).
- It is caused by the bacteria, *Treponema pallidum*.
- After the infection happens, syphilis bacteria can stay in the body for many years without causing symptoms. But the infection can become active again.
- Syphilis spreads from person to person through direct contact with these sores.
- It can also be passed to a baby during pregnancy, childbirth and sometimes through breastfeeding.
- Syphilis develops in stages. The symptoms vary with each stage and is often painless.

**Q: Consider the following statement regarding National Mission for Clean Ganga (NMCG):**

1. It is a registered society under the Ministry of Jal Shakti.
2. It acted as the implementation arm of the National Ganga River Basin Authority (NGRBA).

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:

- National Mission for Clean Ganga (NMCG) is a registered society under the Ministry of Jal Shakti, Government of India, to take measures for prevention, control and abatement of environmental pollution in the river Ganga and to ensure continuous adequate flow of water so as to rejuvenate the river Ganga.
- It acted as the implementation arm of the National Ganga River Basin Authority (NGRBA), which was constituted under the provisions of the Environment (Protection) Act (EPA), 1986.
- NGRBA has since been dissolved with effect from 2016, consequent to the constitution of the National Council for Rejuvenation, Protection and Management of River Ganga (referred to as National Ganga Council).

**Q: Consider the following statement regarding Goldilocks Effect:**

1. It is the premise that people are inclined to seek ‘just the right’ amount of something.
2. It applies to elements of psychology, hard sciences, economics, marketing and engineering.
3. People prefer something that is neither too extreme nor too moderate but falls within an optimal or desirable range.

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 Goldilocks Effect, or the Goldilocks Principle, is the premise that people are inclined to seek ‘just the right’ amount of something.
- People prefer something that is neither too extreme nor too moderate but falls within an optimal or desirable range, fitting their specific needs or preferences.
- The concept is derived from the children's story of Goldilocks and the Three Bears, where Goldilocks preferred the porridge, chair and bed that were neither too hot nor too cold, too big nor too small, but just right.
- It has a place in several fields and disciplines. It applies to elements of psychology, hard sciences, economics, marketing and engineering, and each one has its own twist on how the principle is applied.

**Q: Consider the following statement regarding Banni Grassland:**

1. It is one of the largest grasslands in the Indian subcontinent.
2. The Banni is also home to 22 ethnic groups.
3. The Kutch Desert Wildlife Sanctuary and Chhari Dhand Conservation Reserve does not fall into this grassland.

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:

- Banni Grassland is located along the northern border of Kachchh district.
- It is one of the largest grasslands in the Indian subcontinent with an area of over 2500 sq. km.
- Many factors have served to shape Banni over time, including the damming of rivers, the introduction and spread of the invasive Prosopis juliflora tree, and the continually varying composition and density of livestock that have grazed these grasslands for many centuries.
- The Banni is also home to 22 ethnic groups, the majority of whom are pastoralists, spread across 48 settlements in 19 Panchayats, with a population of close to 40,000 people.
- The Kutch Desert Wildlife Sanctuary which spans over an area of 380 sq. km and the recently notified 227 Sq. km Chhari Dhand Conservation Reserve are part of the Banni Grasslands.

