

Q: Consider the following statement regarding Nipah Virus:

1. It is a zoonotic disease.
2. The organism which causes Nipah Virus is closely related to Hendra virus.
3. The disease first appeared in bats.

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:

- Nipah virus infection is a zoonotic illness that is transmitted from animals to humans.
- The organism which causes Nipah Virus encephalitis is an RNA or Ribonucleic acid virus of the family Paramyxoviridae, genus Henipavirus, and is closely related to Hendra virus.
- It was first broke out in Malaysia and Singapore in 1998 and 1999.
- It first appeared in domestic pigs and has been found among several species of domestic animals, including dogs, cats, goats, horses and sheep.
- The disease spreads through fruit bats, or 'flying foxes,' of the genus Pteropus, who are natural reservoir hosts of the Nipah and Hendra viruses.
- The virus is present in bat urine and, potentially, bat faeces, saliva, and birthing fluids

Q: Consider the following statement regarding Self-Regulatory Organisation (SRO) for Fintech:

1. It is a governmental organisation that sets and enforces rules relating to the conduct of entities in the industry.
2. It aims to protect the customer and promoting ethics, equality, and professionalism.
3. The recognised SRO will serve as a two-way communication channel between its members and the RBI.

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:

- Self-Regulatory Organisation for Fintech is a non-governmental organisation that sets and enforces rules and standards relating to the conduct of entities in the industry (members).
- Protecting the customer and promoting ethics, equality, and professionalism.
- These typically collaborate with all stakeholders in framing rules and regulations.
- The recognised SRO will serve as a two-way communication channel between its members and the RBI.

Q: Consider the following statement regarding International Tribunal for the Law of the Sea:

1. It is an independent judicial body established by United Nations Convention on the Law of the Sea.
2. Disputes relating to the Convention may concern protection and preservation of the marine environment.

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:

- International Tribunal for the Law of the Sea is an independent judicial body established by the 1982 United Nations Convention on the Law of the Sea.
- The Tribunal is composed of 21 independent members.
- Members elected by secret ballot by the States Parties to the Convention.
- Each State Party may nominate up to two candidates.
- Disputes relating to the Convention may concern the delimitation of maritime zones, navigation, conservation and management of the living resources of the sea, protection and preservation of the marine environment and marine scientific research.

Q: Consider the following statement regarding Gene-drive technology:

1. It is a type of genetic engineering technique that modifies genes.
2. This technique could be an effective way to eradicate malaria-causing mosquitoes.
3. Mosquitoes will selectively inherit some genes rather than the inheritance to follow the rules of Mendelian genetics.

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:

- A gene drive is a type of genetic engineering technique that modifies genes.
- This technology was conceived by Austin Burt, a professor at Imperial College London.
- This technique could be an effective way to eradicate nuisance species, such as malaria-causing mosquitoes.
- Under this technique, mosquitoes will selectively inherit some genes rather than the inheritance to follow the rules of Mendelian genetics.
- In this, a protein cuts the mosquito's DNA at a part that doesn't encode a particular sequence in the genome.
- This triggers a natural mechanism in the cell containing the DNA to repair it and forces the cell to incorporate a sequence called the drive sequence into the damaged portion.

Q: Consider the following statement regarding Russia Far East:

1. The region spreads over four time zones and various climate zones.
2. About 1/3 of all coal reserves and hydro-engineering resources of the country are here.
3. United States of America and China is not the part of this region.

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:

- Russia Far East is the easternmost part of Russia.
- The macro-region borders two oceans, the Pacific and the Arctic, and five countries (China, Japan, Mongolia, the United States and the DPRK).
- The Far Eastern region spreads over four time zones and various climate zones, from northern deserts to subtropics.
- It is rich in natural resources like diamonds, borax, etc.
- About 1/3 of all coal reserves and hydro-engineering resources of the country are here.

