

**Q: Consider the following statement regarding Indian Renewable Energy Development Agency (IREDA):**

1. It is a non-banking financial institution under the administrative control of the Ministry of New and Renewable Energy.
2. It is primarily engaged in promoting, developing, and extending financial assistance for setting up projects relating to new and renewable sources of energy.
3. It is recently given the status of Maharatna Company.

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:

- Indian Renewable Energy Development Agency (IREDA) is a Mini Ratna (Category-I) non-banking financial institution under the administrative control of the Ministry of New and Renewable Energy (MNRE).
- It is a Public Limited Government Company established as a Non-Banking Financial Institution (NBFC) in 1987.
- IREDA has been notified as a “Public Financial Institution” under Section 4 ‘A’ of the Companies Act, 1956, and registered as NBFC with the Reserve Bank of India (RBI).
- IREDA is primarily engaged in promoting, developing, and extending financial assistance for setting up projects relating to new and renewable sources of energy and energy efficiency/conservation.
- To give financial support to specific projects and schemes for generating electricity and/ or energy through new and renewable sources and conserving energy through energy efficiency.

**Q: Consider the following statement regarding Respiratory Syncytial Virus (RSV):**

1. It is one of the most frequent causes of old age illness.
2. It is a common respiratory virus.
3. A severe infection leads to pneumonia and bronchiolitis.

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:

- Respiratory Syncytial Virus (RSV) is a common respiratory virus.
- RSV is one of the most frequent causes of childhood illness.
- It usually causes mild, cold-like symptoms.
- Premature infants, babies younger than 6 months old, people over age 65, and people who have a compromised immune system, chronic lung disease, or congenital heart condition can get a more severe case of RSV.
- A severe infection leads to pneumonia and bronchiolitis.

**Q: Consider the following statement regarding Dibang River:**

1. It originates near Keya Pass on the Indo-Chinese border.
2. It flows through Arunachal Pradesh and Assam.

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:

- Dibang River flows through Arunachal Pradesh and Assam states of India.
- It is an upstream tributary of Brahmaputra.
- The Dibang originates near Keya Pass on the Indo-Chinese border in the Upper Dibang Valley district of Arunachal Pradesh.
- The Sisar, Mathun, Tangon, Dri, Ithun and Emra are the major tributaries of the Dibang.
- The Mishmi Hills are found along the upper course of the Dibang River.

**Q: Consider the following statement regarding Telecom Regulatory Authority of India (TRAI):**

1. It is not a completely independent telecom regulator.
2. The TRAI is also funded by the Central Government.
3. The recommendations made by the TRAI are not binding on the Central Government.

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:

- Telecom Regulatory Authority of India (TRAI) was established by an Act of Parliament called the Telecom Regulatory Authority of India Act, 1997.
- TRAI is not a completely independent telecom regulator.
- Under section 25 of the Act, Central Government has the power to issue directions which are binding on TRAI.
- The TRAI is also funded by the Central Government.
- The recommendations made by the TRAI are not binding on the Central Government.
- Central Government has to mandatorily ask for recommendations from TRAI with respect to the need and timing of new service providers and the terms and conditions of the licence to be granted to the service provider.

**Q: Consider the following statement regarding *Alcanivorax borkumensis*:**

1. It is a marine bacterium that uses exclusively petroleum oil hydrocarbons as sources of carbon and energy.
2. It is found in low numbers in all oceans of the world.
3. It is Anaerobic, meaning it does not use air to gain energy.

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:

- *Alcanivorax borkumensis* is a marine bacterium that uses exclusively petroleum oil hydrocarbons as sources of carbon and energy (and is therefore designated “hydrocarbonoclastic”).
- It is found in low numbers in all oceans of the world and becomes abundant in oil-contaminated waters.
- It may now serve as a model organism to understand bacterial alkane metabolism.
- It is a rod-shaped bacterium without flagella that obtains its energy primarily from eating alkanes (a type of hydrocarbon).
- It is aerobic, meaning it uses oxygen to gain energy.