

Q: Consider the following statement:

1. Argentina has the third-largest reserve of the mineral in the world.
2. Lithium is used in manufacturing batteries.
3. Argentina is the largest producer of lithium in the world.

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:

- Argentina is the fourth largest producer of lithium. It also has the third-largest reserve of the mineral in the world.
- Lithium is widely used in manufacturing batteries and other electronic products.
- Australia, US and China are the other major producers of the mineral.

Q: Consider the following statement regarding Broadcasting Infrastructure and Network Development (BIND) Scheme:

1. It is a scheme to provide financial support private broadcasting companies.
2. It aims to development high-quality content for both domestic and international audiences.

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: b

Explanation:

- The investment, announced under the Central Sector 'Broadcasting Infrastructure and Network Development (BIND)' scheme, will be up to 2025-26 and will aim to modernise the two entities run by Prasar Bharati.
- It is also the largest investment outlay by the government for the two public broadcasters under the BIND scheme.
- The BIND scheme is the vehicle for providing financial support to Prasar Bharati for expenses related to expansion and upgrade of its broadcasting infrastructure, content development and civil work related to the organisation.
- Prasar Bharati, as the public broadcaster of the country, is the most important vehicle of information, education, entertainment and engagement for the people, especially in remote areas of the country, through DD and AIR.
- Another priority area of the scheme would be the development of high-quality content for both domestic and international audiences and ensuring availability of diverse content to viewers by upgrade of capacity of DD Freedish, the free-to-air DTH platform run by Prasar Bharati, to accommodate more channels.

Q: Recently, the Union Cabinet has approved National Green Hydrogen Mission. Consider the following:

1. Cumulative reduction in fossil fuel imports.
2. Creation of jobs.

Which among the following is the outcome of this mission by 2030?

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

Ans: c

Explanation:

The National Green Hydrogen Mission will result in the following likely outcomes by 2030:

- Development of green hydrogen production capacity of at least 5 MMT (Million Metric Tonne) per annum with an associated renewable energy capacity addition of about 125 GW in the country
- Over Rs. Eight lakh crore in total investments.
- Creation of over Six lakh jobs.
- Cumulative reduction in fossil fuel imports over Rs. One lakh crore.
- Abatement of nearly 50 MMT of annual greenhouse gas emissions.

Q: Consider the following:

1. Ocean circulation
2. Large Mountain range

3. Climate change

Which among the following are the major cause for which southern hemisphere is hit by storm?

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: d

Explanation:

- Researchers at the University of Chicago have found that the ocean circulation and the large mountain ranges in the Northern Hemisphere are the big triggers that make the Southern Hemisphere prime to be hit by storms and cyclones on an annual basis.
- They also found that this storminess asymmetry has increased since the beginning of the satellite era in the 1980s.
- The findings indicate that the increase in storminess is consistent with climate change forecasts from physics-based models. Researchers said that consistently, the Southern Hemisphere has a stronger jet stream and more extreme weather events than the Northern Hemisphere.

Q: Consider the following statement regarding the sixth schedule:

1. Under article 244, Constitution protects the autonomy of tribal populations.
2. Ten autonomous councils exist in Assam, Meghalaya, Tripura and Mizoram.
3. As per the 2011 Census, out of the total population of Ladakh, and nearly 20% of them are tribals.

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 sixth schedule under Article 244 of the Constitution protects the autonomy of tribal populations through creation of autonomous development councils which can frame laws on land, public health and agriculture. As of now ten autonomous councils exist in Assam, Meghalaya, Tripura and Mizoram.
- As per the 2011 Census, the total population of Ladakh was 2,74,289, and nearly 80% of them are tribals.