



## Daily Current Affairs Prelims Quiz 28-01-2023 (Online Prelims Test)

1) Consider the following statements with respect to Air-Independent Propulsion (AIP) System:

1. AIP allows a non-nuclear submarine to operate without access to atmospheric oxygen.
2. The technology creates energy by combining hydrogen and oxygen, with only water created as a by-product.
3. They are similar to nuclear submarines and need not reach the surface of the water for several weeks.

Which of the above statement(s) is/are correct?

- a. 1 and 3 only
- b. 1 and 2 only
- c. 2 and 3 only
- d. 1, 2 and 3

Answer : b

### Air-Independent Propulsion (AIP) System

- AIP is the marine propulsion technology that allows a non-nuclear submarine to operate without access to atmospheric oxygen.
- The technology create energy by combining hydrogen and oxygen, with only water created as a by-product.
- Since these cells are extremely efficient and have minimal moving parts, they can also operate without increasing the acoustic signature of the submarine.
- Hydrogen fuel cells create no exhaust fumes which also eliminates the need to have special exhaust scrubbing and disposable machine parts.
- Fuel-cell based AIPs enable submarines to stay underwater for vastly longer periods of time than conventional diesel-electric submarines increasing their range and turning them into a far more potent and lethal adversary.
- Despite the advantage it offers them against conventional diesel-electric submarines, they still do not have the same endurance as nuclear submarines that do not need to surface at all.

2) Consider the following statements with respect to Agriculture Infrastructure Fund (AIF):

1. It is a central sector scheme that will enable a financing facility for funding agriculture infrastructure projects.
2. It provides financial support to both the Farmer Producer Organisations (FPOs) and Self Help Groups (SHGs).
3. It provides funding to create post-harvest management infrastructure and build community farming assets.

Which of the above statement(s) is/are correct?

- a. 1 and 2 only
- b. 2 and 3 only

c. 1 and 3 only

d. 1, 2 and 3

Answer : d

### Agriculture Infrastructure Fund (AIF)

- It is a central sector scheme that will enable a financing facility of Rs.1 lakh crore for funding agriculture projects.
- It was launched in July 2020 for creation of post-harvest management infrastructure and community farm assets.
- AIF is providing all-round financial support to the farmers, Agri-entrepreneurs, Farmer Producer Organisations (FPOs), Self Help Groups (SHGs), Joint Liability Groups (JLGs) and many others.
- It provides 3% interest subvention, credit guarantee support through Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE) scheme for loan up to Rs. 2 cores.

3) Consider the following statements with respect to the National Mission for a Green India (GIM):

1. It aims at protecting, restoring and enhancing India's forest cover and responding to climate change.
2. The target under the Mission is 100 million hectares (Mha) on forest and non-forest lands for increasing the forest cover.
3. As per the India State of Forest Report-2021, forest and tree cover in the country decreased since the last assessment in 2019.

Which of the above statement(s) is/are correct?

a. 1 only

b. 2 only

c. 3 only

d. 1, 2 and 3

Answer : a

### National Mission for a Green India (GIM)

- It is one of the eight Missions under the National Action Plan on Climate Change.
- It aims at protecting, restoring and enhancing India's forest cover and responding to climate change.
- The target under the Mission is 10 million hectares (Mha) on forest and non-forest lands for increasing the forest/tree cover and to improve the quality of existing forest.
- States with significant shortfall in tree cover include:
  - Andhra Pradesh, with a target of 186 ha but having only achieved 75 ha.
  - Uttarakhand with a target of 6,446 ha but only 1,505 ha achieved
  - Madhya Pradesh targeting 5,858 ha but delivering 1,882 ha
  - Kerala committing 1,686 ha but furnishing 616 ha
  - Punjab, unusually committed to 629 ha but having delivered 1,082 ha
- As per the India State of Forest Report-2021, forest and tree cover in the country increased by 2,261 square kilometre since the last assessment in 2019.
- Madhya Pradesh had the largest forest cover, followed by Arunachal Pradesh, Chhattisgarh, Odisha and Maharashtra.
- The top 5 States in terms of forest cover as a percentage of their total geographical area were Mizoram (84.53%), Arunachal Pradesh (79.33%), Meghalaya (76%), Manipur (74.34%) and Nagaland (73.90%).

4) Consider the following statements:

1. Earth's inner core is in the solid-state whereas the outer core is in the liquid state.
2. Earth's inner core can spin independently from the earth's surface because it floats in the liquid metal outer core.

Which of the above statement(s) is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer : c

### Earth's Inner Core

- The core-mantle boundary is positioned at the depth of 2,900 km.
- The inner core is in the solid-state whereas the outer core is in the liquid state.
- The core is made up of very heavy material mostly constituted by nickel and iron and hence it is also called the "nife" layer.
- The inner core can spin independently because it floats in the liquid metal outer core.
- Exactly how the inner core rotates has been a matter of debate.
- Recently scientists have found that the Earth's inner core rotating slower than surface.

5) Consider the following statements with respect to Pashmina Shawls:

1. Kashmir Pashmina is a fine type of wool which is obtained from breeds of mountain goats.
2. Karbi tribes from Ladakh rear the goat for its wool.
3. Kashmiri Pashmina is part of the UNESCO Intangible Heritage List

Which of the above statement(s) is/are **incorrect**?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1, 2 and 3

Answer : b

### Pashmina Shawls

- Pashmina comes from an animal fibre Cashmere, derived from the Changthangi goat of Ladakh.
- Changthang is the land of the nomads, located east of Leh, about 14600 m above sea level and winter temperature can drop to  $-40^{\circ}\text{C}$ .
- Changpa are herder nomadic tribes belong to the sub-sect of larger Buddhist community in the Ladakh.
- They rear sheep in harsh climates for meat and Pashmina goats for wool primarily.
- A GI Tag for Pashmina shawls was given in the year 2013 owing to its geographic origin and unique methods of making.