

Q: Consider the following:

1. Ross Island: Shaheed Dweep
2. Havelock: Island: Netaji Subhash Chandra Bose Dweep
3. Neil Island: Swadesh Dweep

Choose the correct match 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:

- Keeping in mind the historical significance of the Andaman & Nicobar Islands and to honour the memory of Netaji Subhas Chandra Bose, Ross Islands was renamed as Netaji Subhash Chandra Bose Dweep by the Prime Minister during his visit to the Island in 2018.
- Neil Island and Havelock Island were also renamed Shaheed Dweep and Swaraj Dweep.

Q: Consider the following statement regarding Air Independent Propulsion (AIP) system:

1. It helps to increase the fire power of the submarine.
2. It helps to generate hydrogen onboard.
3. This technology has been successfully developed by NMRL.

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:

- In a major boost to 'Aatmanirbhar Bharat', Fuel Cell-based Air Independent Propulsion (AIP) system of DRDO's Naval Materials Research Laboratory (NMRL) will soon be fitted onboard INS Kalvari.
- The Air Independent Propulsion (AIP) has a force multiplier effect on lethality of a diesel electric submarine as it enhances the submerged endurance by several folds.
- It has merits in performance compared to other technologies and is unique as the hydrogen is generated onboard.
- This technology has been successfully developed by NMRL with the support of Indian industry partners. The technology has now reached the stage of maturity for industrialisation.

Q: Consider the following statement:

1. Odisha State Disaster Management Authority (OSDMA) and Lunglei Fire Station (LFS), Mizoram have been selected for the Subhash Chandra Bose Aapda Prabandhan Puraskar-2023 for their excellent work in Disaster Management.
2. The award is announced every year on 23rd January, the birth anniversary of Netaji Subhash Chandra Bose.

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:

- For the year 2023, Odisha State Disaster Management Authority (OSDMA) and Lunglei Fire Station (LFS), Mizoram, both *in the Institutional category*, have been selected for the Subhash Chandra Bose Aapda Prabandhan Puraskar-2023 for their excellent work in Disaster Management.
- The Government of India under the leadership of Prime Minister has instituted an annual award known as Subhash Chandra Bose Aapda Prabandhan Puraskar to recognize and honour the invaluable contribution and selfless service rendered by individuals and organizations in India in the field of disaster management.
- The award is announced every year on 23rd January, the birth anniversary of Netaji Subhash Chandra Bose.
- The award carries a cash prize of Rs. 51 lakh and a certificate in case of an institution and Rs. 5 lakh and a certificate in case of an individual.

Q: Consider the following statement regarding the consequences of artificial light:

1. The lit beaches deter sea turtles from coming ashore to nest.
2. Skyglow keeps trees from sensing seasonal variations
3. Clownfish eggs don't hatch when exposed to artificial light at night.

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:

- Regardless of historical or geographical context, humans tend to use as much artificial light as they can buy for about 0.7 percent of GDP. That is, even though LEDs have become more efficient, their utilisation hasn't decreased, which in turn means the carbon emissions due to their production and use hasn't decreased.
- Numerous studies have also found that artificial light at night affects both people and wildlife in significant ways.
- The lit beaches deter sea turtles from coming ashore to nest. Skyglow keeps trees from sensing seasonal variations.
- Young burrow-nesting seabirds don't take flight unless the nesting site becomes dark.
- Clownfish eggs don't hatch when exposed to artificial light at night, killing the offspring.
- Skyglow interferes with multiple aspects of insect life and allows insect predators to hunt for longer.

Q: Consider the following statement regarding Ken-Betwa Link:

1. It will be fed by the new Daudhan Dam on the Ken.
2. The project will endanger the water security of Panna.
3. It is to be built within Pench Tiger Reserve.

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 link will be in the form of a canal that will be fed by the new Daudhan Dam on the Ken, to be built within Panna Tiger Reserve. The dam will generate 103 MW of hydroelectric power.
- The linking canal will flow through Chhatarpur, Tikamgarh and Jhansi districts, with the project expected to irrigate 6.3 lakh hectares of land every year.
- Hydrological and ecological experts aren't convinced, however, mainly because the government's plan is based on a 'surplus and deficit' model that they have said has little basis in science.
- They are also concerned that the project will endanger the water security of Panna. There are also significant legal problems with the approval granted to the KBLP.