

**Q: Consider the following statement regarding Cryogenic engines:**

1. They use liquid oxygen and liquid hydrogen as the propellant.
2. The liquid oxygen is very reactive.
3. Oxygen is kept in solid state.

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:

- Cryogenic means low temperature. Cryogenic engines are highly efficient liquid propellant engines.
- They use liquid oxygen and liquid hydrogen as the propellant. Oxygen can be kept in liquid state at below  $-1830\text{ C}$  temperature, while hydrogen requires temperature below  $-253\text{ }^{\circ}\text{C}$  to be in liquid form.
- Moreover, the liquid oxygen is very reactive. So, effective technology is required to ensure that both come in contact only in the combustion chamber.

**Q: Consider the following statement regarding Indo-Thai CORPAT:**

1. It is an annual exercise between India and Thailand.
2. Its objective is to reinforce maritime linkages between India and Thailand.
3. It aims to ensure the safety and security of the international trade route in the Indian Ocean.

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:

- The Indo-Thai CORPAT is a bi-annual coordinated patrol conducted by the Indian Navy and the Royal Thai Navy.
- It aims to reinforce maritime linkages between India and Thailand and ensure the safety and security of the international trade route in the Indian Ocean.
- The primary objective of the Indo-Thai CORPAT is to reinforce maritime linkages between India and Thailand.

**Q: Consider the following stamen SAKSHAM:**

1. It has been developed by the National Institute of Health & Family Welfare (NIHFW).
2. This digital learning platform will ensure inclusive capacity building of health professionals from primary health centres.

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:

- Recently, Union Health Secretary launched the SAKSHAM (Stimulating Advanced Knowledge for Sustainable Health Management), a Learning Management Information System (LMIS) of MoHFW.
- This digital learning platform has been developed by the National Institute of Health & Family Welfare (NIHFW), New Delhi.
- SAKSHAM is a dedicated and unified platform for providing online training and medical education to all health professionals in the country.
- This digital learning platform will ensure inclusive capacity building of health professionals from primary health centres located in rural and remote areas all the way up to tertiary care and corporate hospitals in metropolitan cities.

**Q: Consider the following:**

1. Telangana
2. Karnataka
3. West Bengal

Which among the following states is not the top performing states in terms of percentage of ODF Plus villages?

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

Ans: d

Explanation:

- The top performing states in terms of percentage of ODF Plus villages are - Telangana (100%), Karnataka (99.5%), Tamil Nadu (97.8%) & Uttar Pradesh (95.2%) among the big states and Goa (95.3%) and Sikkim (69.2%) among small states, are the top performer.
- Among UTs – Andaman & Nicobar Islands, Dadra Nagar Havelli & Daman Diu and Lakshadweep have 100% ODF Plus Model villages.
- These States & UTs have shown remarkable progress in achieving the ODF Plus status, and their efforts have been instrumental in reaching this milestone.

**Q: Consider the following statement regarding 'Harit Sagar':**

1. Its objective is to achieve zero emission.
2. It was launched by Ministry of Ports, Shipping & Waterways.
3. The award for the best Absolute Performance for the year 2022-23 conferred to the Jawaharlal Nehru Port.

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:

- To meet the larger vision of achieving Zero Carbon Emission Goal, Ministry of Ports, Shipping & Waterways has launched 'Harit Sagar' the Green Port Guidelines.
- The award for the best Absolute Performance for the year 2022-23 conferred to the Deendayal Port, Kandla for handling highest cargo of 137.56 MMT.