

Q: Consider the following statement regarding occurrence of cyclone in Arabian Sea:

1. There is an increase in cyclonic storms in Arabian Sea.
2. There is an increase in cyclonic storm during post monsoon period.
3. Bay of Bengal witness more cyclone than Arabian Sea.

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 Arabian Sea side of the north Indian Ocean, however, saw a 52 per cent increase in cyclonic storms (63-88 km per hour) from 2001 -2019.
- The frequency increase in very severe cyclonic storms, extremely severe cyclonic storms and super cyclonic storms in the Arabian Sea was observed during the post-monsoon months. As an exception, 2019 witnessed five tropical storms over the Arabian Sea and three over the Bay of Bengal.
- In comparison to the Bay of Bengal, the proportion of Arabian sea cyclones was initially 1:4, but in current study, found that it has become 2:4 from 2001-2020.

Q: Consider the following statement regarding the Global TB Report 2022:

1. The report is released by UNICEF.
2. India's TB incidence for the year 2021 is 210 per 100,000 population.
3. India is placed at the 36th position in terms of incidence rates.

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:

- Recently, the WHO released the Global TB Report 2022.
- The Report notes the impact of the COVID-19 pandemic on the diagnosis, treatment and burden of disease for TB all over the world.
- India's TB incidence for the year 2021 is 210 per 100,000 population – compared to the baseline year of 2015 (incidence was 256 per lakh of population in India); there has been an 18% decline which is 7 percentage points better than the global average of 11%.
- These figures also place India at the 36th position in terms of incidence rates (from largest to smallest incidence numbers).

Q: Consider the following statement:

1. Gilgit-Baltistan is the northernmost tip of Kashmir.
2. It provides a land route with China.

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:

- Parts of Kashmir have been illegally occupied by Pakistan since 1947.
- Pakistan-occupied Kashmir (PoK) comprises two different regions, one which the neighbouring nation calls 'Azad Jammu and Kashmir' (AJK) and the other is Gilgit-Baltistan (GB).
- GB is the northernmost tip of Kashmir and covers part of Ladakh. It provides a land route with China, meeting Xinjiang Autonomous Region.
- To its south is the other part of PoK; to the east is Jammu and Kashmir and Afghanistan is to its west. The GB region makes up 86 per cent of PoK.

Q: Consider the following statement regarding SIMBEX Exercise 2022:

1. This exercise will be hosted by India at Visakhapatnam.
2. This exercise was initially known as Exercise Lion King.
3. It exemplifies the high level of cooperation between India and Singapore in the maritime domain.

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:

- The Indian Navy is hosting the 29th edition of the Singapore-India Maritime Bilateral Exercise (SIMBEX) at Visakhapatnam.
- SIMBEX series of exercises began in 1994 and were initially known as Exercise Lion King.
- The exercise exemplifies the high level of cooperation between India and Singapore in the maritime domain.
- It also highlights the commitment and contribution of the two nations towards enhancing maritime security in the Indian Ocean Region.

Q: Consider the following statement regarding Thermal Inversion:

1. Thermal inversion is when the temperature increases along with the higher altitude.
2. Air parcels rising into this layer become cooler than the surrounding environment.
3. This phenomenon only occur in summer.

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:

- Temperature or thermal inversion is when the temperature increases along with the higher altitude.
- The cap is a layer of relatively warm air aloft (above the inversion). Air parcels rising into this layer become cooler than the surrounding environment, which inhibits their ability to ascend.
- The phenomenon mostly occurs in winter when "mist and fog become trapped in the cooler air low down", but inversions can happen throughout the year.