

**Q: Delta Front Campaign and Delta Top Campaign is associated with**

- a) Perseverance rover campaign on Mars.
- b) Polaris program of Venus
- c) Apollo 11 mission of Moon
- d) SpaceX Dragon 2 campaign of Sun

Ans: a

Explanation:

- Recently, the Perseverance rover has successfully created the **first sample depot on the Mars Planet** after dropping 10 titanium tubes to be brought to Earth on future missions.
- The rover has completed the Delta Front Campaign and is set to begin the Delta Top Campaign.
- One of the first stops the rover will make during the new science campaign is at a location called the “Curvilinear Unit.”
- The unit is made up of sediments that were deposited in a bend in one of Jezero’s inflowing river channels millions of years ago.

**Q: Recently, the Union Finance Minister presented the Economic Survey 2022-23 in the Parliament. Consider the following statement:**

1. India failed to achieved its target of 40 per cent installed electric capacity from non-fossil fuels ahead of 2030.
2. India declared the Net Zero Pledge to achieve net zero emissions goal by 2070.
3. India to reduce emissions intensity of its GDP by 45% by 2030 from 2005 levels.

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:

- India declared the Net Zero Pledge to achieve net zero emissions goal by 2070.
- India achieved its target of 40 per cent installed electric capacity from non-fossil fuels ahead of 2030.
- The likely installed capacity from non-fossil fuels to be more than 500 GW by 2030 resulting in decline of average emission rate by around 29% by 2029-30, compared to 2014-15.
- India to reduce emissions intensity of its GDP by 45% by 2030 from 2005 levels.
- About 50% cumulative electric power installed capacity to come from non-fossil fuel-based energy resources by 2030.
- A mass movement LIFE– Life style for Environment launched.

**Q: Consider the following statement:**

1. India has become the second-largest mobile phone manufacturer globally.
2. FDI flows into the Indian Pharma Industry has risen four times in 2022.

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:

- India has become the second-largest mobile phone manufacturer globally, with the production of handsets going up from 6 crore units in FY15 to 29 crore units in FY21.
- Foreign Direct Investment (FDI) flows into the Pharma Industry has risen four times, from US \$180 million in FY19 to US \$699 million in FY22.

**Q: Consider the following statement:**

1. India ranks third globally with respect to the net gain in average annual forest area between 2010 and 2020.
2. Arunachal Pradesh has the maximum carbon stock in forests.
3. Jammu & Kashmir contributes the maximum per-hectare carbon stock.

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:

- India ranks third globally with respect to the net gain in average annual forest area between 2010 and 2020.
- The survey attributes the same to the robust framework and policies of the National and State Governments such as Green India Mission (GIM), Compensatory Afforestation Fund Management and Planning Authority (CAMPA), etc.
- Among the Indian States, Arunachal Pradesh has the maximum carbon stock in forests and Jammu & Kashmir contributes the maximum per-hectare carbon stock of 173.41 tonnes.

**Q: Consider the following statement:**

1. India now has 75 Ramsar sites for wetlands.
2. According to economic survey, there has been a decrease in mangrove cover in 2021.

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: a

Explanation:

- As part of dedicated efforts to preserve ecosystems, India now has 75 Ramsar sites for wetlands covering the area of 13.3 lakh hectares.
- The economic survey also underlines an increase in mangrove cover by 364 sq. km. in 2021, as a result of various regulatory and promotional measures to protect and conserve mangroves.