## Q: Consider the following statement:

- 1. Earth's magnetic field protects us from high speed charged particles.
- 2. Unlike earth, Mars have intrinsic magnetic field.

### 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:

- The Earth is a giant magnet, and its magnetic field protects us from high-speed charged particles that are continuously emitted from the Sun in the form of solar wind.
- Unlike Earth, the planet Mars do not have any intrinsic magnetic field. This allows the high-speed solar wind to interact directly with the Mars atmosphere, like an obstacle in flow.
- It has been suggested that even in a weak and thin magnetosphere as that of the Mars, one can observe frequent occurrences of solitary waves.
- However, despite several missions to Mars, the presence of solitary waves in the Martian magnetosphere has never been reported earlier.

# Q: Consider the following statement regarding "Exercise Varuna"

- 1. This exercise is held between India and USA.
- 2. This exercise was first initiated in 2001.
- 3. This exercise is held between the navies of two countries.

### 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 21st Edition of the Bilateral Naval Exercise between India and France Exercise Varuna commenced on the Western Seaboard recently.
- While the bilateral exercise between the two navies were initiated in 1993, it was christened as 'VARUNA' in 2001 and has become a hallmark of India France strategic bilateral relationship.

# Q: Consider the following statement Coovax:

- 1. It is manufactured through technology transfer from Novavax.
- 2. It was granted emergency-use listing by the World Health Organization (WHO).

#### 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:

- Covovax is manufactured through technology transfer from Novavax.
- It has been approved by the European Medicines Agency for conditional marketing authorisation.
- It was granted emergency-use listing by the World Health Organization (WHO) on December 17, 2021.
- In August 2020, US-based vaccine maker Novavax Inc. had announced a licence agreement with the SII for the development and commercialisation of NVX-CoV2373, its COVID-19 vaccine candidate in India and low-and-middleincome countries

### Q: Consider the following statement:

- 1. Japan and India will hold their first air-drill.
- 2. Japan is also a member of the Quad grouping that includes India, Australia and the US.
- 3. India is the fifth country Japan has hosted in this type of bilateral exercise.

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:

- Japan and India held their first joint air drills as both countries step up military exercises with other countries amid worries about China's assertiveness.
- Japan is also a member of the Quad grouping that includes India, Australia and the US and is seen as a check on Beijing's assertiveness in the Indo-Pacific.
- The joint drills with India grew out of a security meeting in New Delhi in November 2019 but had been put on hold due to the coronavirus pandemic.
- India is the fifth country Japan has hosted in this type of bilateral exercise after the US, Australia, Britain and Germany.

### Q: Consider the following:

- 1. Uttarakhand
- 2. Ladakh
- 3. Gujarat

In which of the following places IMD has augmented the Doppler Weather Radar network?

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

### Ans: a

### Explanation:

- The IMD has augmented the Doppler Weather Radar network in Himachal Pradesh, Uttarakhand, Ladakh, and Jammu & Kashmir, which will help further predict extreme weather events more accurately.
- During the event, he dedicated 4 Doppler Weather Radar Systems to the Western Himalayan States of Jammu and Kashmir, Uttarakhand, and Himachal Pradesh.