1.What is the significance of the Tarang Shakti exercise recently conducted by the Indian Air Force (IAF)?

 a) It is a unilateral air exercise focused on enhancing the combat skills of the IAF.
 b) It is a bilateral exercise between India and the United States aimed at strengthening defense ties.
 c) It is the largest multilateral air exercise hosted by the IAF, involving participation from multiple countries.
 d) It is a naval exercise conducted by the Indian Navy to enhance maritime security in the Indian Ocean Region**.**

Solution: c)

2. Consider the following statements regarding the Civil Registration System (CRS) and the Registration of Births and Deaths (Amendment) Act, 2023:

The Civil Registration System (CRS) is a centralised portal for digitally registering all births and deaths in India.
The data from the CRS will not be used to update other databases such as the National Population Register (NPR) and electoral rolls.
Which of the above statements is/are correct?

 a) 1 only
 b) 2 only
 c) Both 1 and 2
 d) Neither 1 nor 2

Solution: a)

3. The Defence Research and Development Organisation (DRDO) successfully conducted the maiden flight test of the long-range glide bomb (LRGB) "Gaurav" on August 13, 2024. Which of the following statements is correct regarding the Gaurav glide bomb?

 a) It is a 500 kg class glide bomb capable of hitting targets at short distances.
 b) It is a sea-launched 1,000 kg class glide bomb designed for naval warfare.
 c) It is an air-launched 1,000 kg class glide bomb capable of hitting targets at long distances, using a highly accurate hybrid navigation scheme.
 d) It is a ground-launched missile with a hybrid propulsion system.

Answer: c)

4. Which of the following statements is correct regarding the Jiyo Parsi Scheme launched by the Minister for Minority Affairs, Kiren Rijiju, on August 13, 2024?

 a) The scheme is aimed at increasing the population of the Parsi community by providing incentives for large families.

b) The scheme provides financial assistance only for the education of Parsi children.
c) The scheme aims to reverse the declining trend of the Parsi population by adopting a scientific protocol and providing financial assistance for medical treatment and childcare.
d) The scheme focuses on promoting inter-community marriages to increase the Parsi population.
Incorrect

Solution: c)

5. What is the primary environmental concern associated with the discharge of ballast water by ships at new ports?

a) Increase in oil spills
b) Increase in shipwrecks
c) Decline in water temperature
d) Introduction of invasive species

Solution: d)

6. Consider the following statements about the 'FloodWatch India' mobile application:

The app provides real-time flood monitoring data from over 500 flood monitoring stations.
The app is available in English only and provides information exclusively in text format.
The app includes data on the storage levels of major reservoirs, helping assess flood risks.
Which of the statements given above is/are correct?

A. 1 and 2 only
B. 1 and 3 only
C. 3 only
D. 1, 2, and 3

Solution: b)

7. Which of the following techniques is used to track and manage "forever chemicals" known as per- and polyfluoroalkyl substances (PFAS)?

a) Gas Chromatography
b) Ultraviolet Spectroscopy
c) Mass Spectrometry
d) Nuclear Magnetic Resonance (NMR) Spectroscopy

Solution: d)

8. Why are PFAS chemicals often referred to as "forever chemicals"?

a) They are used in products that last forever.

b) They have no adverse environmental impact.
c) They persist in the environment for thousands of years.
d) They are naturally occurring in the environment.

Solution: c)

9. Consider the following statements regarding Distributed Denial-of-Service (DDoS) attacks:

A DDoS attack is characterized by overwhelming a server with traffic from multiple sources, making it difficult for legitimate users to access the service.
DDoS attacks are typically easier to counter than traditional Denial-of-Service (DoS) attacks because they originate from a single source.
DDoS attacks can result in slow loading times or complete inaccessibility of online services.
Which of the statements given above is/are incorrect?

a) 1 and 2 only
b) 1 and 3 only
c) 2 and 3 only
d) 2 only

Solution: d)

10. Which method is associated with Distributed Denial-of-Service (DDoS) attacks?

a) Smurf Attack
b) Cross-Site Scripting
c) Man-in-the-Middle Attack
d) SQL Injection

Solution: a)