



TEST YOUR KNOWLEDGE

1. Recently, NEERAKSHI was in the news. What is it?

- 1) A Missile.
- 2) An Autonomous Underwater Vehicle.
- 3) Abhay class Corvette.
- 4) Smog air Purifier.

Which of the above option is correct?

- A) 1
- B) 2
- C) 3
- D) 4

Answer: B) 2

2. The Ring Nebula, also known as Messier 57 (M57), is a famous planetary nebula located in which constellation?

- A) Orion
- B) Lyra
- C) Ursa Major
- D) Scorpius

Answer: B) Lyra

3. Consider the following statements in the context of the Durand Cup.

1. The Durand Cup was started in 1858 to promote friendly relations among princely states.
2. The first edition of the tournament was held in Kolkata, the capital of British India.
3. The tournament was initially a military affair.
4. Kolkata FC is the current holder of the Durand Cup.

How many of the above statements is/are correct?



- A) Only 1
- B) Only 2
- C) Only 3
- D) All of the above

Answer: A

Explanation:

Statement 1 is incorrect: The Durand Cup was started in 1888, not in 1858, to encourage sporting competition and maintain health, not to promote friendly relations among princely states.

Statement 2 is incorrect: The first edition of the tournament was not held in Kolkata. It was initially held in Dagshai, near Shimla, during the British Raj era.

Statement 3 is correct. The Durand Cup was initially a military affair open to the British Armed Forces, the Indian Army, and other armed units.

Statement 4 is incorrect: Bengaluru FC is the current holder of the Durand Cup.

4. What potential benefits can Controlled Human Infection Studies offer in the field of medicine?

1. Identifying new pathogens to enhance biological warfare capabilities.
2. Developing more potent strains of infectious diseases for research purposes.
3. Accelerating the development of vaccines and treatments for various diseases.
4. Exposing human populations to widespread infectious diseases for immunity development.

How many of the above statements is/are correct?

- A) Only 1
- B) Only 2
- C) Only 3
- D) All of the above



Answer: A

Explanation: Statement 3 is correct. Controlled Human Infection Studies play a crucial role in advancing medical research and public health. By intentionally infecting human volunteers with specific pathogens in a controlled environment, researchers can closely monitor disease progression and evaluate the efficacy of potential vaccines and treatments. This controlled setting allows for quicker and more precise assessment of medical interventions, ultimately speeding up the development of vaccines and treatments for various infectious diseases. It is important to note that CHIs are conducted under strict ethical guidelines and with the utmost consideration for the safety and well-being of the volunteers.

5. Consider the following statements with reference to Software-Defined Radio.

1. Software-Defined Radio provides real-time voice, data, and video information.
2. Software-Defined Radio eliminates the need for components such as mixers, filters, amplifiers, modulators, and demodulators.
3. In Software-Defined Radio single hardware platform can support multiple communications protocols via software application loads.
4. India's Software-Defined Radio Tactical (SDR-Tac) houses multiple types of waveforms for narrow-band and wide-band applications.

Which of the above statements is/are incorrect?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) None of the above.

Answer: (d) None of the above.