

Qn 1. Only statement 1 is true

Explanation:

- **Statement 1** is **false** because pagers are not naturally explosive devices; they are used for communication, primarily message reception.
- **Statement 2** is **true**. Pagers can be modified by attaching them to an improvised explosive device (IED) and used as a remote trigger when they receive a signal.
- **Statement 3** is **false**. Pager explosions are not caused by battery malfunctions, but by intentional modifications made to use them as detonators for explosives.

Qn. 2 : Only statement 2 is true.

Explanation:

- PETN is more powerful than TNT, making **Statement 1** false.
- It is widely used in detonating cords for precise explosions, which makes **Statement 2** correct.
- PETN is non-metallic, and therefore, **Statement 3** is false as it cannot be easily detected by standard metal detectors.

Qn. 3

Answer: a) OTEC utilizes the temperature difference between the ocean's surface and deep waters to generate power.

Explanation: OTEC leverages the thermal gradient between warm surface waters and cold deep waters to produce electricity.

- It does not rely on tidal movements or wave energy, which are associated with different types of blue renewable energy.
- Ocean Thermal Energy Conversion (OTEC) is most effective in tropical areas near the equator where there's a large temperature difference between the surface and deep ocean waters.
- This is because OTEC facilities need a large amount of both warm and cold water to generate electricity.

Qn. 4

Explanation:

- Hezbollah, meaning "Party of God," was established in the early 1980s during the Lebanese Civil War. It was created by Shiite Muslims in Lebanon with the primary aim of resisting the Israeli invasion of Lebanon. It has both a military and a political wing and is involved in Lebanese politics and military activities, especially against Israel.
- Hezbollah is designated as a terrorist organization by several countries, including the United States and the European Union, due to its militant activities and attacks on civilians.
- However, this designation is not universally accepted, and some countries and organizations view Hezbollah differently, often considering its political and social roles in Lebanon.
- The United Nations has not officially classified Hezbollah as a terrorist organization, reflecting the complex nature of its activities and influence.

Qn. 5 1 & 2 are correct

Explanation:

- **Statement 1:** Correct. The standard probation period is two years.
- **Statement 2:** Correct. The probation period can be extended in cases such as suspension or disciplinary proceedings.
- **Statement 3:** Incorrect. There's generally no provision for reducing the probation period based on exceptional performance.

1. Duration of Probation:

- **Rule 2:** Defines the duration of probation for IPS officers. It typically lasts for two years.
- **Rule 5:** Specifies the training period that must be completed during probation.

2. Training and Evaluation:

- **Rule 5:** Outlines the training programs that probationers must undergo.
- **Rule 9:** Details the evaluation process for probationers, including the final examination.

3. Extension of Probation:

- **Rule 6:** Provides conditions under which the probation period can be extended, such as if a probationer is under suspension or facing disciplinary proceedings.

4. Discharge from Service:

- **Rule 12:** Specifies the circumstances under which a probationer can be discharged from the service, including failure to pass the final examination or unsatisfactory performance during probation.

5. Seniority:

- **Rule 10:** Determines the seniority of probationers within the IPS.