



DATE: 03.10.2026

- 1) Consider the following statements regarding Sickle Cell Anaemia:
1. It is a genetic disorder caused by an abnormal form of haemoglobin.
 2. It can cause red blood cells to become rigid and sickle-shaped.
 3. Sickle-shaped red blood cells can obstruct blood flow in small blood vessels.
- Which of the statements given above are correct?
- (a) 1 and 2 only
 - (b) 1 and 3 only
 - (c) 2 and 3 only
 - (d) 1, 2 and 3
- 2) With reference to the Directorate of Revenue Intelligence (DRI), consider the following statements:
1. DRI serves as the apex intelligence agency for anti-smuggling and commercial fraud investigation in India.
 2. The DRI is also empowered to investigate offenses related to Narcotic Drugs and Psychotropic Substances (NDPS).
 3. It functions directly under the Ministry of Home Affairs.
- Which of the statements given above are correct?
- (a) 1 and 2 only
 - (b) 1 and 3 only
 - (c) 2 and 3 only
 - (d) 1, 2 and 3
- 3) Consider the following:
1. Registration of exporters dealing with scheduled agricultural and processed food products.
 2. Fixing and enforcing the minimum export price of all agricultural commodities exported from India.
 3. Providing financial assistance for improving packaging, quality and infrastructure related to scheduled products.
 4. Collection and publication of statistics related to the export of scheduled products.
- In how many of the above functions is the Agricultural and Processed Food Products Export Development Authority (APEDA) involved?
- (a) Only one
 - (b) Only two
 - (c) Only three
 - (d) All four
- 4) Consider the following statements regarding Buxa Tiger Reserve:
1. It lies within the Indo-Malayan biodiversity region.
 2. It occupies a strategic transboundary position by sharing its northern boundary with Bhutan.
 3. The reserve is drained by the river Torsa.
- Which of the statements given above is/are correct?
- (a) 1 and 2 only
 - (b) 1 and 3 only



- (c) 2 and 3 only
- (d) All the above

5) With reference to the GOBARDhan initiative, consider the following statements:

1. It seeks to convert biodegradable waste, including cattle dung, into useful resources.
2. The term GOBARDhan stands for Green Organic Biomass and Rural Dhan.
3. The Department of Drinking Water and Sanitation (DDWS) coordinates the efforts of stakeholder Ministries/Departments under GOBARDhan.
4. Methane is the principal energy-bearing component of biogas.

Which of the statements given above is/are correct?

- (a) 1 and 4 only
- (b) 1, 2 and 4 only
- (c) 1, 3 and 4 only
- (d) 1 only

Explanation

1) **Answer: (D)**

- **Statement 1 is correct:** Sickle cell anaemia is an inherited genetic disorder caused by a mutation in the gene that codes for hemoglobin, resulting in an abnormal form of hemoglobin (Hemoglobin S).
- **Statement 2 is correct:** Due to this abnormal hemoglobin, red blood cells lose their flexibility and adopt a rigid, crescent or "sickle" shape under low oxygen conditions.
- **Statement 3 is correct:** Because the sickled cells are stiff and sticky, they tend to clump together and can obstruct small blood vessels, leading to restricted blood flow, pain, and tissue damage.
- **Therefore, option D is the correct answer.**

2) **Answer: (A)**

- **Statement 1 is correct:** The Directorate of Revenue Intelligence (DRI) is the apex agency responsible for detecting and curbing the smuggling of contraband goods, as well as investigating commercial fraud related to international trade and Customs duty evasion.
- **Statement 2 is correct:** DRI officers are empowered under the Narcotic Drugs and Psychotropic Substances (NDPS) Act, 1985 to carry out seizures, investigations, and prosecutions related to drug trafficking.
- **Statement 3 is incorrect:** DRI functions under the **Central Board of Indirect Taxes and Customs (CBIC), Department of Revenue, Ministry of Finance**, and *not* the Ministry of Home Affairs.
- **Therefore, option A is the correct answer.**

3) **Answer: (C)**

- **Statement 1 is Correct:** APEDA is responsible for the registration of exporters of scheduled agricultural and processed food products under the APEDA Act, 1985.
- **Statement 2 is Incorrect:** APEDA does not fix and enforce the minimum export price of all agricultural commodities. Export restrictions, minimum export prices and related trade measures may fall under the broader framework of the Government and relevant authorities.



- **Statement 3 is Correct:** APEDA provides assistance for infrastructure development, packaging, quality improvement, market development and other activities that support the export of scheduled products.
- **Statement 4 is Correct:** APEDA undertakes activities related to the collection and dissemination of information and statistics concerning scheduled agricultural and processed food products and their exports.
- **Therefore, option C is the correct answer.**

4) Answer: (A)

- **Statement 1 is Correct.** The northeastern region of India, including the Himalayan foothills and the Dooars where Buxa is situated, acts as a transitional zone and belongs to the broader Indo-Malayan biogeographical realm, featuring a rich mix of Indian and Malayan floral and faunal species.
- **Statement 2 is Correct.** Buxa's northern boundary runs entirely along the international border with Bhutan, specifically contiguous with Bhutan's Phipsoo Wildlife Sanctuary, making it a crucial transboundary corridor for wildlife migration (such as Asian elephants and tigers).
- **Statement 3 is Incorrect.** While the Torsa River flows through northern West Bengal, it primarily drains and flows through the neighboring **Jaldapara National Park** (and parts of Chilapata forests). The primary rivers that drain the Buxa Tiger Reserve are the **Sankosh, Raidak, and Jayanti** rivers, along with smaller streams like the Dima, Churnia, Turturi, and Phashkhawa.
- **Therefore, option C is the correct answer.**

5) Answer: (C)

- **Statement 1 is correct:** It is a Government of India initiative launched in 2018 under the **Swachh Bharat Mission (Grameen)** to convert cattle dung and other biodegradable waste into useful resources such as biogas, compressed biogas (CBG), and organic manure.
- **Statement 2 is incorrect:** GOBARDhan stands for **Galvanizing Organic Bio-Agro Resources Dhan**.
- **Statement 3 is correct:** DDWS is identified as the **nodal department** for coordinating stakeholder Ministries/Departments under GOBARDhan.
- **Statement 4 is correct:** Methane (CH_4) is the primary energy-bearing component of biogas, making up about 50% to 75% of its total composition. Composition of Biogas - **Methane (CH_4):** 50% – 75% (Provides the combustible energy), **Carbon Dioxide (CO_2):** 25% – 50%, **Nitrogen (N_2):** 0% – 10%, **Hydrogen (H_2):** 0% – 2%, **Hydrogen Sulfide (H_2S):** Trace amounts (gives biogas its distinct sulfur/egg-like smell).