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Daily MCQs: 28-01-2025

1. Consider the following statements about 'Brahmos' missiles.

1. It is a cruise missile.
2. It has the ability to travel at hypersonic speeds.
3. It was developed as a joint collaboration between India and France.

How many of the above statements is/are correct?

- A. Only one
- B. Only two
- C. All the three
- D. None of the above

2. Consider the following statements about the Namdapha National Park.

1. It is located in the state of Arunachal Pradesh.
2. It is a part of Dibang Dihang Biosphere reserve.
3. It is also recognised as a Tiger reserve.

How many of the above statements is/are correct?

- A. Only one
- B. Only two
- C. All the three
- D. None of the above

3. Teesta river, often seen in news, is a tributary of which of the following river?

- A. Yamuna
- B. Jamuna
- C. Indus
- D. Godavari

4. Consider the following statements about the Guillain-Barré Syndrome.

1. It is an autoimmune neurological disorder.
2. There is no known cure for this syndrome.

Which of the above statements is/are correct?

- A. 1 only
- B. 2 only

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- C. Both 1 and 2
- D. Neither 1 nor 2

5. Consider the following statements about Auroras

1. Auroras are primarily visible near the equator and are devoid of in the polar regions.
2. Auroras occur due to the collision of charged particles from the Sun with Earth's atmosphere.

Which of the statements given above is/are correct?

- A) 1 only
- B) 2 only
- C) Both 1 and 2
- D) Neither 1 nor 2

Solutions:

1. Answer: A

Explanation:

- **BrahMos Aerospace** was formed as a joint venture between Defence Research and Development Organisation (**DRDO**) of India and Joint Stock Company "Military Industrial Consortium" "**NPO Mashinostroyenia**" (earlier known as Federal State Unitary Enterprise NPOM of Russia). **Hence, statement 3 is incorrect.**
- The company was established in India through an **Inter-Governmental Agreement** signed on February 12, 1998, between The Republic of India and The Russian Federation
- BrahMos - the name represents the fury of **Brahmaputra** and the grace of **Moskva rivers**.
- The company is responsible for designing, developing, producing and marketing the **BRAHMOS supersonic cruise missile** with active participation of a consortium of Indian and Russian industries. **Hence, statement 1 is correct and 2 is incorrect.**
- The missile has a flight range of 290 kms and can carry a warhead weighing upto 300 kg.

2. Answer: B

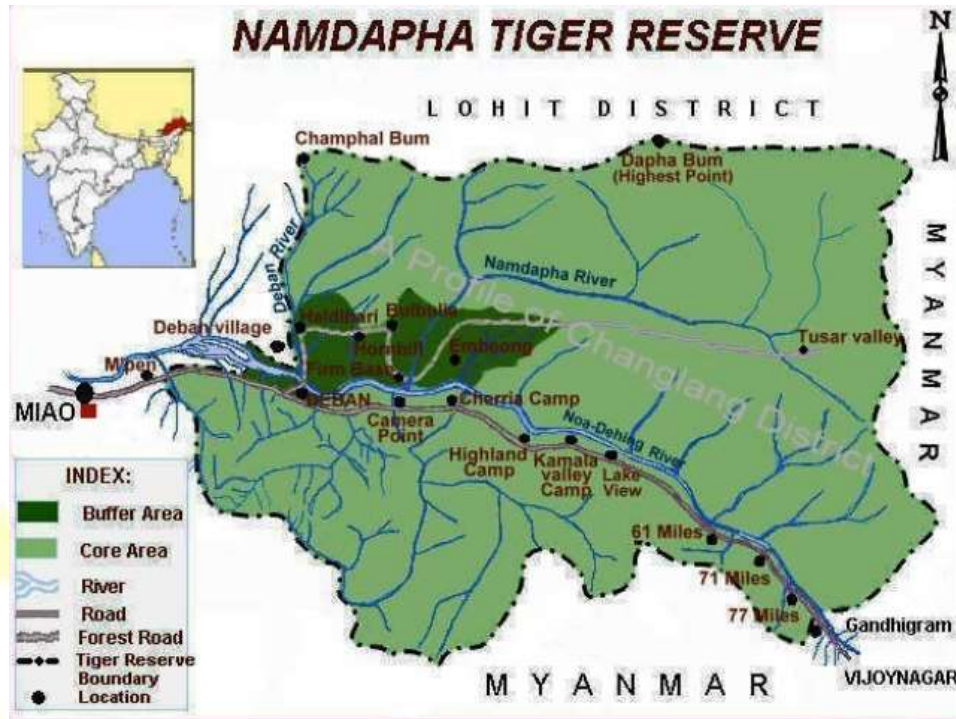
Explanation:

Namdapha National Park:

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- Namdapha, a **National Park and Tiger Reserve**, a true wilderness and enchanting beauty of lush green vegetation, impenetrable pristine and virgin forests.
- It covers an area of 1985.23 square kilometres having diverse flora and fauna lies in the international border between India and Myanmar (Burma) within **Changlang District in the state of Arunachal Pradesh in the northeast India**.
- Namdapha is not a part of Dibanga Dihang Biosphere reserve. **Hence, statement 1 is correct and 2 is incorrect.**
- Namdapha National Park is located a few kilometers away from Miao amidst misty blue hills along the turbulent Noa-Dihing river lies in the sprawling tropical rainforest.
- It was declared a Tiger Reserve by the Government in 1983. **Hence, statement 3 is correct.**

3. Answer: B

Explanation:

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- **Teesta River**, a tributary of the **Jamuna River (Brahmaputra River)**, flows through India and Bangladesh. **Hence, option B is correct.**
- It rises in the Himalayas near Chunthang in Sikkim (India), flows to the south, cutting a deep gorge through the Siwalik Hills east of Darjeeling (in West Bengal, India), and turns southeast to run through the Sivok Khola pass onto the plains of West Bengal.
- It joins the Jamuna River near Chilmari after a total course of about 320 km.

4. Answer: C

Explanation:

- Guillain-Barré Syndrome (GBS) is an autoimmune neurological disorder in which a person's immune system attacks their peripheral nerves, leading to muscle weakness that can progress to paralysis. **Hence, statement 1 is correct.**
- People of any age can be affected, but it is more common in adults and males.
- The condition is rare, with an estimated incidence of 1/2 per 1,00,000 population.
- While the causes of GBS are still not fully understood, in most cases, it occurs after a viral or bacterial infection.
- There is no known cure for GBS. **Hence, statement 2 is correct.**
- However, there are some treatments that aid in recovery. Most people can make a nearly full recovery.
- The treatments primarily include plasma exchange and intravenous immunoglobulin therapy.

5. Answer: B

Explanation

- An aurora is a natural phenomenon which is characterized by a **display of a natural-coloured (green, red, yellow or white) light in the sky.**
- It is a light show which is caused when **electrically-charged particles from the sun collide with particles from gasses** such as oxygen and nitrogen present in the Earth's atmosphere. **Hence statement 2 is correct.**
- Aurora is sometimes referred to as '**polar light**'. It is predominantly seen in the regions of **high altitudes like the Arctic and Antarctic.** **Hence statement 1 is incorrect.**

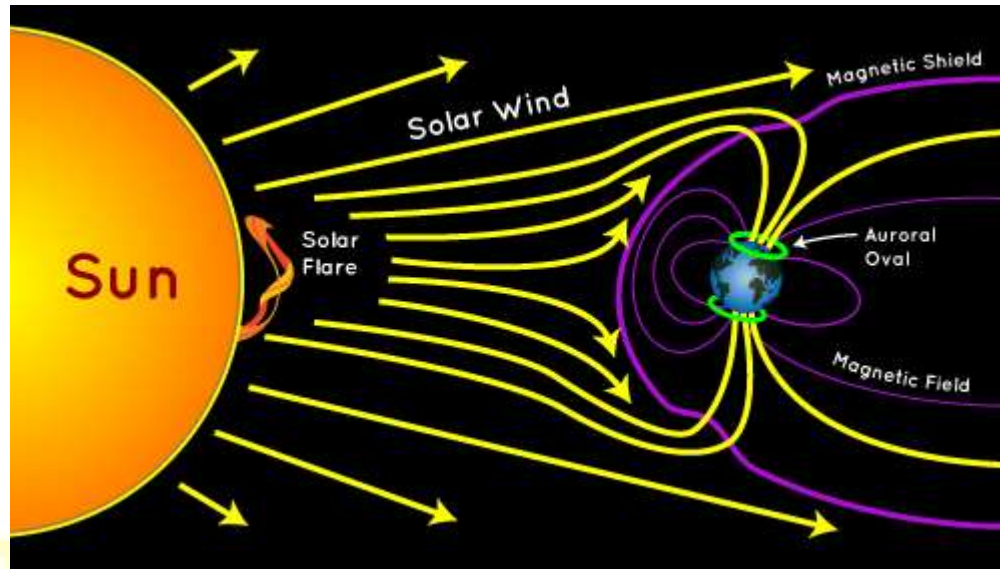


What causes an Aurora?

- An aurora is caused by the **streams of electrified particles** (which are emitted by the sun) **trapped in the magnetic field of the earth.**
- It is produced when this **magnetosphere is disturbed by the solar wind carrying the charged particles.**
- Auroras are seen in latitudes of **around 70 degrees.** They generally **occur in a band** known as **'auroral zone'**.
- The auroral zone is **3 to 6 degrees wide** in latitude. It lies between **10 and 20 degrees from the geomagnetic poles.**
- This is visible quite clearly during the night. Auroras can sometimes be seen at latitudes below the actual auroral zone.
- Auroras can appear in various forms like **streamers, patches, arcs, scattered light, diffused light etc.**
- The brightest and the most distinctive of all forms of auroras are the ones which are curtain-like in the shape of an arc, extending in the east-west direction.
- This natural light effect is known as **'aurora borealis'** in northern altitudes, while the effect in the southern latitudes is known as **'aurora australis'**.
- Aurora borealis is also known as **'Northern lights'**. Similarly, aurora australis is also known as **'Southern lights'**.

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