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Daily MCQs: 23-01-2025

1. India shares a land border with Myanmar along which of the following states?

- A) Assam, Tripura, Meghalaya, Mizoram
- B) Arunachal Pradesh, Nagaland, Manipur, Mizoram
- C) Arunachal Pradesh, Nagaland, Manipur, Tripura
- D) Sikkim, Nagaland, Arunachal Pradesh, Nagaland

2. El Nino is characterized by

- A) Unusually cold sea surface temperatures in the eastern Pacific Ocean.
- B) Unusually warm sea surface temperatures in the eastern Pacific Ocean.
- C) Increased rainfall patterns across the globe.
- D) A strengthening of the polar vortex.

3. Which of the following are the services provided by the International Financial Services Centre (IFSC).

- 1. Fund-raising services for individuals, corporations and governments
- 2. Wealth management
- 3. Merger and acquisition activities among trans-national corporations

Select the correct answer using the codes given below

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

4. Consider the following

- 1) Pulicat Lake
- 2) Rann of Kutch
- 3) Chilika Lake

How many of the above are notable sites where flamingoes can be found in India?

- A) Only one
- A) Only two
- B) All three
- C) None

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5. Consider the following statements regarding the International Space Station (ISS)

1. It is a habitable artificial satellite located in the medium earth orbit
2. It serves as a microgravity and space environment research laboratory in which crew members conduct experiments
3. The ISS programme is a joint project between P5 countries.

How many of the statements given above is/are correct?

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

Solutions:

1. Answer: B

Explanation

- **Myanmar** is a Southeast Asian country with Naypyidaw as its capital.
- **Borders:**
 - China to the north and northeast,
 - Laos to the east,
 - Thailand to the southeast,
 - Bangladesh to the west, and
 - **India to the northwest.**
- **Border with India:** 1600 km and maritime boundary in the Bay of Bengal.
- **Marginal seas:** The Andaman Sea and Bay of Bengal to the south and southwest.
- **Indian states bordering Myanmar: Four** North-Eastern States
 - **Arunachal Pradesh, Nagaland, Manipur and Mizoram. Hence option B is correct.**



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- **Important Rivers: Irrawaddy**
- **Myawady**
 - It is a **town on the border between Myanmar and Thailand**. It had seen sporadic clashes between the military and anti junta fighters since the coup in 2021.

2. Answer: B

Explanation

- **El Nino** is a **climate pattern** that describes the **unusual warming** of surface waters in the **eastern tropical Pacific Ocean**. Hence **Option B is correct**.
- During **El Niño**, the **surface winds** across the entire **tropical Pacific** are weaker than usual. Ocean temperatures in the central and eastern tropical Pacific Ocean are warmer than average, and rainfall is below average over **Indonesia** and above average over the **central or eastern Pacific**.
- **Rising air motion** (which is linked to storms and rainfall) increases over the **central or eastern Pacific**, and surface pressure there tends to be lower than average. Meanwhile, an increase in sinking air motion over Indonesia leads to higher surface pressure and dryness.
- Since the Pacific covers almost one-third of the earth, changes in its temperature and subsequent alteration of wind patterns disrupt **global weather patterns**.
- El Niño causes **dry, warm winters** in **Northern U.S. and Canada** and increased **flood risk on the U.S. gulf coast and southeastern U.S.** It also brings **drought** to **Indonesia** and **Australia**.

3. Answer: D

Explanation:

- An International Financial Services Centre (IFSC) is a jurisdiction that provides **world class financial services to non-residents and residents**, to the extent permissible under the current regulations, in a currency other than the domestic currency (Indian Rupee) of the location where the IFSC is located.
- **Services provided by an IFSC:**
 - Fund-raising services for individuals, corporations and governments
 - Asset management and global portfolio diversification undertaken by pension funds, insurance companies and mutual funds
 - Wealth management
 - Merger and acquisition activities among trans-national corporations, etc. Hence **all the three statements are correct**.

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4. Answer: C

Explanation

- Flamingos are naturally gray or white, and their pink color comes from the **carotenoid pigments in the organisms they consume, such as algae, crustaceans, and small invertebrates**. The carotenoids are broken down in the flamingo's liver and then deposited in their feathers, skin, and beaks, giving them their distinctive pink hue.
- **Pulicat Lake in Andhra Pradesh and Tamil Nadu, the Rann of Kutch in Gujarat, and Chilika Lake in Odisha** are indeed notable sites where flamingos can be found in India. These locations provide the suitable conditions, such as brackish or saline water, for flamingos to feed and breed.
- Flamingos are **filter feeders**, using their unique bills with specialized structures called **lamellae to filter small organisms** such as shrimp, algae, and insects from the water. They often feed in shallow waters by stirring up mud and water with their bills and then using their lamellae to filter out the food.
- In India, flamingos are commonly **found in both freshwater lakes and coastal areas**. Pulicat Lake, for example, is a brackish water lagoon, and flamingos are frequently observed in coastal regions, including estuaries and mudflats.

Other important points about Flamingo

- Flamingos are social birds that live in groups of varying sizes, from a few pairs to sometimes thousands or tens of thousands.
- There are 6 species of Flamingos. Caribbean flamingos, the lesser, greater, James's (or Puna), Chilean and Andean flamingos.
- In order to fly, flamingos need to run a few paces to gather speed.
- Of the six species of flamingos in the world, two are found in India: the tallest of them, the greater flamingo (*Phoenicopterus roseus*) and the smallest one, the lesser flamingo (*Phoeniconaias minor*).
- Both these species of Flamingos are resident species and **breeds in the Little Rann of Kachchh in Gujarat**.

5. Answer: A

Explanation

- **Statement 1 is incorrect:** The International Space Station (ISS) is a space station, or a **habitable artificial satellite, in low Earth orbit (not medium earth orbit)**
 - **Low Earth orbit (LEO)** is a geocentric orbits with altitudes below 2,000 km
 - **Medium Earth orbit (MEO)** is a geocentric orbits ranging in altitude from 2,000 km to just below geosynchronous orbit at 35,786 kilometers (22,236 miles)

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- Its first component launched into orbit in 1998 and the ISS is now the largest human-made body in low Earth orbit.
- **Statement 2 is correct:** The ISS serves as a microgravity and space environment research laboratory in which crew members conduct experiments in biology, human biology, physics, astronomy, meteorology, and other fields.
- **Statement 3 is incorrect:** The ISS programme is a joint project between five participating space agencies: NASA (United States), Roscosmos (Russia), JAXA (Japan), ESA (Europe) and CSA (Canada). **(not P5 countries)**
- The ownership and use of the space station is established by intergovernmental treaties and agreements.

