

Daily MCQs- 20th October

1. With reference to 'fly ash' produced by the power plants using coal as fuel, which of the following statements is/are correct?

1. It is made of Silica, Aluminium oxide, calcium oxide and some potentially toxic elements.
2. Fly Ash is added as a mixture to cement for building construction, laying of roads and landfills.
3. A taller chimney helps reduce the concentration of fly ash by distributing it over a wider region

Select the correct answer using the code given below

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

Answer (d)

Explanation:

What is Fly Ash?

- Fly ash is a fine powder, which is the by-product of burning coal in thermal power plants.
- Fly ash includes substantial amounts of micron sized earth elements of oxides of silica, aluminum and calcium. Elements like Arsenic, Boron, Chromium, lead etc. are also found in trace concentrations. So **statement 1 is correct.**

Statement 2 is correct:

- Fly ash can be used as a replacement for some of the Portland cement contents of concrete. It is environmentally beneficial because it reduces the Portland cement, a major contributor of CO₂, required in concrete.
- Fly ash is used as resource material for many applications of construction industries and is also being utilized in manufacturing of bricks/blocks/tiles.

Statement 3 is correct:

A taller chimney helps reduce the concentration of fly ash by distributing it over a wider region

Other FlyAsh Management Techniques:

- It includes washing coal at its place of origin will prevent ash from coming to power plants.
- Promoting R&D for increasing efficiency of power plants will also help in reducing ash generation

2. Consider the following statements with respect to UNAIDS

1. It is leading the global effort to end AIDS as a public health threat by 2030 as part of the Sustainable Development Goals
2. It is the only United Nations entity with civil society represented on its governing body

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

Answer: C

Explanation

Both the statements are correct:

- **UNAIDS is leading the global effort to end AIDS** as a public health threat **by 2030** as part of the Sustainable Development Goals
- UNAIDS is a model for United Nations reform and is the **only cosponsored Joint Programme** in the United Nations system
- It draws on the experience and **expertise of 11 United Nations system Cosponsors** and is the **only United Nations entity with civil society represented** on its governing body
- It places people living with HIV and **people affected by the virus at the decision-making table** and at the centre of designing, delivering and monitoring the AIDS response
- It provides a platform for the countries to get on the Fast-Track to ending AIDS and is a bold advocate for **addressing the legal and policy barriers** to the AIDS response
- Recently, the **Union Minister of State for Shipping** and Chemical & Fertilizers participated in the High-level roundtable of UNAIDS (The Joint United Nations Programme on HIV/AIDS)

<https://www.unaids.org/en/whoweare/about>

3. Which of the following countries is/are placed completely between the Tropic of Capricorn and the Equator?

1. Angola
2. Indonesia
3. Australia
4. Bolivia

Select the correct answer using the code below.

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

Answer : D

Explanation

- Indonesia extends beyond the Tropic of Capricorn and Australia is virtually divided into half by the Tropic of Capricorn.
- On the other hand, African country Angola and South American country Bolivia are present completely between Equator and Tropic of Capricorn.

4. Consider the following pairs of military exercises between India and other participating countries

1. Malabar - USA and Japan
2. Maitree- Thailand
3. Hand in Hand - Nepal
4. Surya Kiran- Sri Lanka

Which of the above pairs is/are matched correctly?

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

Answer-B

Explanation:

(i) **Exercise MALABAR:** A Trilateral Maritime Exercise is between **the navies of India, Japan and USA.**

(ii) **MAITREE:** A Joint Military Exercise between **India and Thailand.**

(iii) **Hand in Hand-India-China joint military exercise** on various themes.

(iv) **Exercise SURYA KIRAN :** A bilateral annual military exercise between **Indian and Nepal Army.**

(v) **Exercise MITRA-SHAKTI** refers to annual military exercise between **India and Sri Lanka.**

Why in the news?

The Ministry of Defence recently announced that Australia will join the Malabar 2020 naval exercise, consisting of India, Japan and the U.S., to be held next month.

5. Consider the following statements about Asian Development Bank(ADB)

- 1) The primary mission of ADB is to foster growth and cooperation among countries in Asia only.
- 2) India is the largest borrower and second largest shareholder of ADB.

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

Answer: D

Explanation:

Statement 1 is incorrect:

- The Asian Development Bank (ADB) is a regional development bank. It is dedicated to reducing poverty in **Asia and the Pacific** through inclusive economic growth, environmentally sustainable growth, and regional integration.
- ADB assists its members, and partners, by providing loans, technical assistance, grants, and equity investments to promote social and economic development.
- ADB maximizes the development impact of its **assistance by facilitating policy dialogues**, providing advisory services, and mobilizing financial resources through cofinancing operations that tap official, commercial, and export credit sources.

Statement 2 is incorrect:

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

- India is a founding member of the ADB and is **currently the fourth largest shareholder** and the **largest borrower of the ADB**.
- It is headquartered in Manila, Philippines.
- At present, ADB comprises 68 members (including India)- of which 49 are from within Asia and the Pacific and 19 outside.
- The two largest shareholders of the ADB are Japan and the US .
- ADB is an official United Nations Observer.

Why in the news?

The Asian Development Bank (ADB) and the Government of India signed a \$177 million loan to upgrade 450 kilometers (km) of state highways and major district roads in the state of Maharashtra.

