

# OFFICERS IAS ACADEMY

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Daily MCQs: 16-05-2024

**1. With reference to India's projects on connectivity, consider the following statements::**

1. International North-South Transport Corridor (INSTC) is a multimodal transportation network that connects India and Russia via Iran.
2. India-Middle East Economic Corridor (IMEE-CC) connects India's northeastern states and the Bay of Bengal through Myanmar.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

**2. Consider the following diseases that infect humans:**

1. Chikungunya
2. Japanese encephalitis
3. Dengue
4. Malaria

Which of the above are vector borne diseases?

- A) 1 and 4 only
- B) 1,2 and 3 only
- C) 1,2 and 4 only
- D) 1,2,3 and 4

**3. MRI is a diagnostic technique that uses which of the following to generate detailed images of the inside of the body?**

- A) Ionizing radiation
- B) Strong magnetic field and radio waves
- C) Ultrasound waves
- D) Contrast dye only

**4. The 'LaQshya' programme was launched by the government with the main objective of?**

- A. Setting up of 1.5 lakh Health & Wellness Centres across the country
- B. Setting up of new AIIMS like institutes in underserved regions of the country
- C. Government-backed small savings scheme for the benefit of girl children
- D. Improving quality of care in the labor room and maternity Operation Theatre

**5. Which of the following statements about Nirbhaya Fund is correct?**

- 1) It is a dedicated fund that can be utilized for projects specifically designed to improve the safety and security of women.

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- 2) It is a non-lapsable corpus fund.
- 3) The Ministry of Finance through the Department of Economic Affairs is the nodal Ministry for any accretion into and withdrawal from the corpus.

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

Solutions:

1. Answer: A

Explanation

**International North South Transport Corridor (INSTC)**

- The INSTC is a **multi-modal transportation route** envisaged to **link the Indian Ocean and Persian Gulf to the Caspian Sea via Iran**, and onward to northern Europe via St Petersburg in Russia. Hence **statement 1 is correct**.
- It was initiated by Russia, India, and Iran,
- The INSTC envisages the movement of goods from
  - Mumbai to Bandar Abbas in Iran by sea;
  - from Bandar Abbas to Bandar-e-Anzali, an Iranian port on the Caspian Sea, by road;
  - from Bandar-e-Anzali to Astrakhan, a Caspian port in the Russian Federation by ship across the Caspian Sea;
  - and onward to other parts of the Russian Federation and Europe by rail.

**India – Middle East – Europe Economic Corridor (IMEC)**

- During the G20 Summit held in India last year, a Memorandum of Understanding (MoU) was signed among the **Governments of India, the U.S., Saudi Arabia, the European Union, the UAE, France, Germany, and Italy** to establish the **India – Middle East – Europe Economic Corridor**. Hence **statement 2 is incorrect**.
- IMEC is envisioned as a **network of transportation routes encompassing railways and sea lanes**.
- Its primary objective is to **promote economic development by fostering integration between Asia, the Arabian Gulf, and Europe**.
- This project falls under the umbrella of the **Partnership for Global Infrastructure Investment (PGII)**, an initiative led by Western nations to support infrastructure projects worldwide.
  - *The PGII seeks to finance infrastructure projects in developing countries by leveraging a combination of public and private investments.*
  - *It was initially introduced during the G7 summit in the UK in 2021.*
- The IMEC corridor hopes to become a **viable alternative to China's Belt and Road Initiative (BRI)**, which has steadily established global connectivity linkages with the Chinese market through extensive shipping, rail, and road networks, since its conception 10 years ago.

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### 2. Answer: D

#### Explanation

- Vector-borne diseases are **human illnesses caused by parasites, viruses and bacteria that are transmitted by vectors.**
- The burden of these diseases is highest in **tropical and subtropical areas**, and they disproportionately affect the poorest populations
- Vector-borne diseases account for more than 17% of all infectious diseases, causing more than 700 000 deaths annually. They can be caused by either **parasites, bacteria or viruses.**
- **Aedes mosquitoes** are known to transmit **dengue virus**, yellow fever virus, **chikungunya virus, and Zika virus.** It is suggested to be a potential vector of Venezuelan Equine Encephalitis virus, and is capable of transmitting West Nile virus. Hence **statements 1 and 3 are correct.**
- **Malaria is a parasitic infection** transmitted by **Anopheline mosquitoes.** Hence **statement 4 is correct.**
- Other viral diseases transmitted by vectors include **Japanese encephalitis** (transmitted by mosquitoes), **tick-borne encephalitis** (transmitted by ticks). Hence **statement 2 is correct.**
- Many vector-borne diseases are preventable, through protective measures, and community mobilization.

### 3. Answer: B

#### Explanation

- An MRI (Magnetic Resonance Imaging) scanner is a medical device that uses a **strong magnetic field and radio waves** to generate detailed images of the inside of the body, particularly the soft tissues like the brain, muscles, and organs.
- MRI does not use ionizing radiation.

#### Functioning of MRI

- The strong magnetic field created by the MRI scanner causes the **atoms in your body to align in the same direction.**
- **Radio waves** are then sent from the MRI machine and **move these atoms** out of the original position.
- As the radio waves are turned off, the **atoms return to their original position and send back radio signals.**
- These signals are received by a computer and converted into an image of the part of the body being examined.

### 4. Answer: D

#### Explanation

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- The **Ministry of Health and Family Welfare** launched the '**LaQshya**' (**Labour room Quality Improvement Initiative**) programme in 2017 which aimed at **improving quality of care in the labor room and maternity Operation Theatre (OT)**.

### Objectives of LaQshya

- Reduce **maternal and newborn morbidity and mortality**;
- **Improve quality of care** during delivery and immediate postpartum period;
- **Enhance satisfaction of beneficiaries**, positive birthing experience and provide Respectful Maternity Care (RMC) to all pregnant women attending public health facilities.

### Target Beneficiaries

- LaQshya program benefits **every pregnant woman and newborn delivering in public health institutions**.
- Program aims to improve quality of care for pregnant women in the labor room, maternity Operation Theatre and Obstetrics Intensive Care Units (ICUs) & High Dependency Units (HDUs).

### Why in the News?

- Kerala state health department has started working on an action plan to improve the quality of health care delivery in government hospitals in the state under the overall framework of the 'LaQshya' programme.

### 5. Answer: D

### Explanation

**All the three statements are correct.**

- Nirbhaya Fund is a dedicated fund set up by the Government of India in **2013** which can be utilized for projects specifically designed to **improve the safety and security of women**.
- It is a **non-lapsable corpus fund** administered by the **Department of Economic Affairs of the Ministry of Finance**.
- As per this framework, the **Ministry of Finance through the Department of Economic Affairs** is the nodal Ministry for any accretion into and withdrawal from the corpus, and the **Ministry of Women & Child Development (WCD)** is the nodal authority for appraisal of the schemes/proposals received under Nirbhaya Fund.
- **Funding to Non-Governmental Organizations is not envisaged under the framework.**
- The proposed projects under the Nirbhaya Fund should have the following features:
  - Direct impact on safety and security concerns of women
  - Optimum use of existing infrastructure
  - Innovative use of technology
  - No duplication of existing government schemes/programmes
  - Provision for real time intervention as far as possible.

### Why in the News?

- The Ministry of Home Affairs (MHA) has provided financial assistance to the tune of around Rs 100 crores under "Nirbhaya Fund" during the financial years 2019-20 and 2020-21 for strengthening the existing Anti Human Trafficking Units (AHTUs) and for establishing new AHTUs covering all districts of the States and UTs.