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Daily MCQs: 13-11-2024

1. Which of the following closely describes 'Geo engineering'?

- A. Mining operations undertaken by developed countries in developing countries.
- B. Random, minimal actions taken to exploit the Earth's systems for economic gain.
- C. Intervention carried out in the Earth's natural systems to reverse the impacts of climate change.
- D. Drilling deep borewells in desert areas in search of water.

2. Consider the following statements about Fluorescent Nanodiamonds.

- 1) They are made up of carbon nanoparticles.
- 2) They are produced in a process involving high temperature and high pressure.
- 3) They have applications in high-resolution imaging.

How many of the above statement(s) is/are correct?

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

INTERVIEW

3. Consider the following statements about the appointment of Chief Justice of India

- 1) As per the Constitution, the senior most Judge of the Supreme Court is appointed as the Chief Justice of India.
- 2) This seniority principle has never been violated in appointing the Chief Justice.

Which of the statement(s) given above is/are correct?

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

PRELIMS

4. Consider the following statements about Mohiniyattam.

- 1) Roots of this dance form are found in Natya Shastra.
- 2) It also involves singing in malayalam language.
- 3) It is a classical dance form from Karnataka.

How many of the above statement(s) is/are correct?

- A. Only one
- B. Only two
- C. Only three
- D. None

5. Consider the following statements about the S-400 missile.

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- 1) It is a mobile surface-to-air missile.
- 2) It was developed by China.
- 3) Its capabilities are roughly comparable with the USA's Patriot.

How many of the above statement(s) is/are correct?

- A. Only one
- B. Only two
- C. Only three
- D. None



1. Answer: C

Explanation

What is Geo engineering?

- It refers to **deliberate**, **large-scale intervention** carried out in the **Earth's natural systems** to reverse the impacts of climate change. Hence, **answer is option C.**
- This involves **techniques** to **physically manipulate** the global climate to cool the planet.
- Geo engineering technologies mainly consist of Carbon Dioxide removal technologies and Solar radiation management.

2. Answer: C

- Fluorescent Nanodiamonds (FNDs) are **nanometre-sized diamonds** made of **carbon nanoparticles**. Hence, **statement 1 is correct**.
- They are produced in a process that involves **high temperature and high pressure**. Hence, **statement 2 is correct**.
- FNDs are **stable under light** and **aren't toxic** to living things, so they have **many applications in high-resolution imaging, microscale temperature sensing, and correlative microscopy,** among others. Hence, **statement 3 is correct.**
- In biology, scientists use FNDs to track cells and their progeny over long periods.

3. Answer: D

Explanation

Appointment of CJI

- The Chief Justice of India and the Judges of the Supreme Court are appointed by the President under Article 124 (2) of the Constitution.
- As per the convention, the **senior most Judge of the Supreme Court** (based on years of experience as a judge in the apex court) considered fit to hold the office will be appointed as the Chief Justice of India (CJI). Hence, **statement 1 is incorrect.**

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- This convention was **violated in 1973** when A.N.Ray was appointed as the Chief Justice of India by superseding three senior judges. Hence, **statement 2 is incorrect.**
- Later, the Supreme Court in the **Second Judges Case (1993),** ruled that the senior most judge of the Supreme Court should alone be appointed to the office of the chief justice of India.

Role of Central Government in the appointment

- The **final decision** on appointing the next CJI technically rests **with the Centre**.
- By convention, the government generally follows the recommendation of the sitting CJI regarding their successor.

4. Answer: A

Explanation

- Mohiniyattam is a classical dance form originating from the state of Kerala. Hence, statement 3 is incorrect.
- It is traditionally a **solo dance** performed by women after extensive training.
- The dance gets its name from **Mohini** the female enchantress avatar of the Hindu deity Vishnu.
- The roots of Mohiniyattam are in the **Natya Shastra** (the **ancient Hindu Sanskrit text** on **performance arts**). Hence, **statement 1 is correct**.
- It follows the **Lasya style** described in **Natya Shastra**, ie, a dance which is **delicate** and **feminine**.
- It comprises delicate footsteps, undulating body movements, and subtle yet poignant facial expressions.
- Mohiniyattam emotes a play through dancing and singing, where the language of the song texts is Manipravala, a mixture of Malayalam and Sanskrit. Hence, statement 2 is incorrect.
- The musical instruments usually used in Mohiniyattam are **Mridangam** or **Madhalam** (barrel drum), **Idakka** (hourglass drum), **flute**, **Veena**, and **Kuzhitalam** (cymbals).

5. Answer: B

Explanation:

- The S-400 Triumf is a mobile surface-to-air missile (SAM) system developed by Russia. Hence, statement 1 is correct and statement 2 is incorrect.
- The system can engage all types of aerial targets including aircraft, unmanned aerial vehicles (UAV) and ballistic and cruise missiles within the range of 400km, at an altitude of up to 30km.
- The system can track 100 airborne targets and engage six of them simultaneously.
- The S-400's mission set and capabilities are roughly comparable to the famed **US Patriot system.** Hence, **statement 3 is correct.**

Why in News?

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• India is set to receive the remaining two squadrons of the S-400 air defence missile system by 2025.

Background

- India had contracted **five S-400 Triumf regiments** from Russia under a \$5.43 billion deal signed in 2018.
- As of now, India has received three squadrons of the air defence system which have been operationalized and deployed along the **borders with China and Pakistan.**

