

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

Daily MCQs: 21-11-2024

1. PM KUSUM scheme empowers

- A. Farmers to generate solar energy from their unused land.
- B. Women to access higher education institutions.
- C. MSMEs to access affordable loans.
- D. Transgender persons to access Sex Reassignment Surgery free of cost.

2. Consider the following statements about Hypersonic missiles.

- 1) Hypersonic missiles generally have speed ranging from Mach 1 to Mach 4.
- 2) Hypersonic missiles have a fixed trajectory that cannot be altered.

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

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

3. Consider the following statements about Chikungunya.

- 1) Chikungunya is a bacterial disease.
- 2) Chikungunya pathogen is transmitted by mosquitoes.
- 3) There is no commercial vaccine available to protect against chikungunya.

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

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

4. Consider the following statements about Aspirational Districts Programme (ADP).

- 1) The objective of ADP is to uplift backward districts.
- 2) NITI Aayog coordinates the programme.
- 3) The objectives are achieved through 'Collaboration, Convergence and Competition'.

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

- A. 1 only
- B. 3 only
- C. 2 and 3 only
- D. None

5. Consider the following statements about Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP)

- 1) The scheme aims at making quality generic medicines available at affordable prices to all.

Plot No: 935, 6th Avenue, Anna Nagar, Chennai-40

Ph: 044-40483555,9677120226,9677174226

Web: www.officersiasacademy.com

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

2) The Scheme is operated by government agencies only.

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

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

Solutions:

1. Answer: A

Explanation

- **Ministry of New and Renewable Energy** has launched the Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan (**PM KUSUM**) Scheme for **farmers for installation of solar pumps** and grid connected solar and other renewable power plants in the country. Hence, **answer is option A.**
- The Scheme consists of three components:
 - **Component A:** Setting up of **Decentralized Ground/ Stilt Mounted Grid Connected Solar or other Renewable Energy based Power Plants** by the farmers on their land
 - **Component B:** Installation of **Stand-alone Solar Agriculture Pumps**
 - **Component C:** Solarisation of **Grid Connected Agriculture Pumps** including Feeder Level Solarization
- **Benefits of the scheme**
 - The scheme will open a **stable and continuous source of income** to the rural land owners.
 - The scheme would ensure that sufficient local solar/ other renewable energy based power is available for **feeding rural load centres and agriculture pump-set loads**, which require power mostly during the day time.
 - As these power plants will be located closer to the agriculture loads or to electrical substations in a decentralized manner, it will result in **reduced Transmission losses for Discoms.**
 - The solar pumps will **save the expenditure incurred on diesel for running diesel pump** and provide the farmers a reliable source of irrigation through solar pump apart from preventing harmful pollution from running diesel pump.

2. Answer: D

Explanation

What Are Hypersonic Missiles?

- Hypersonic missiles are **advanced weapons capable of speeds greater than Mach 5**—five times the speed of sound. Hence, **statement 1 is incorrect.**
 - **Supersonic missiles** generally have speed ranging from **Mach 1 to Mach 4.**

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

- These weapons are **distinct from traditional ballistic missiles due to their ability to maneuver during flight.**
- **Two primary types** of hypersonic weapons include:
 - **Hypersonic Glide Vehicles (HGVs):** These are **launched on rockets and glide to their targets**, using aerodynamic lift for maneuverability.
 - **Hypersonic Cruise Missiles (HCMs):** Powered by **air-breathing scramjet engines**, these missiles **sustain hypersonic speeds throughout their flight.**
- The **key advantage** of hypersonic missiles lies in their ability to **evade conventional missile defence systems.**
- Unlike **ballistic missiles**, which **follow a fixed trajectory**, **hypersonic missiles can alter their course**, making them significantly harder to detect and intercept. Hence, **statement 2 is incorrect.**
- Globally, countries like **the US, Russia, and China** are leading in hypersonic missile development. By mastering hypersonic technology, India has not only **enhanced its strategic deterrence capabilities** but also **strengthened its position in the global defence landscape.**

3. Answer: D

Explanation

About Chikungunya

- Chikungunya is a **mosquito-borne viral disease** caused by the **chikungunya virus (CHIKV)**, an **RNA virus** in the alphavirus genus of the family **Togaviridae**. Hence, **statement 1 is incorrect.**
- It was first identified in 1952 in Tanzania.
- **Transmission:** Chikungunya virus is transmitted by mosquitoes, most commonly **Aedes aegypti and Aedes albopictus**, which can also **transmit dengue and Zika viruses**. These mosquitoes **bite primarily during daylight hours**. Hence, **statement 2 is correct.**
- **Symptoms:** Chikungunya virus infection typically begins with a **sudden onset of fever accompanied by severe joint pain**, which can be debilitating and last from days to years. Other symptoms include joint swelling, muscle pain, headache, fatigue, nausea, and rash.
- **Diagnostics:** Chikungunya virus may be detected directly in blood samples collected during the first week of illness using tests such as reverse transcriptase–polymerase chain reaction (RT–PCR).
- **Treatment and vaccines:** There is **no specific antiviral drug** treatment for CHIKV infections. Treatment primarily **focuses on managing symptoms**, with the use of analgesics and antipyretics to alleviate pain and fever, along with encouraging rest and maintaining adequate hydration. There is **no commercial vaccine** available to protect against chikungunya virus infection. Hence, **statement 3 is correct.**
- **Prevention:** To prevent Chikungunya, key measures include **avoiding mosquito bites**, especially during the first week of illness. **Reducing mosquito breeding sites** by cleaning water containers is essential, and **insecticides** may be used in outbreaks to control mosquito populations.

Why in News?

Plot No: 935, 6th Avenue, Anna Nagar, Chennai-40

Ph: 044-40483555,9677120226,9677174226

Web: www.officersiasacademy.com

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

- Following a spike in chikungunya cases in Telangana, the U.S. Centers for Disease Control and Prevention (CDC) has issued a travel advisory for U.S. travelers returning from Telangana.

4. Answer: D

Explanation

Aspirational Districts Programme

- Launched in **2018**, the Aspirational Districts Programme (ADP) is one of the largest experiments on **outcomes-focused governance** in the world.
- The ADP is **NITI Aayog's** flagship initiative to **uplift those backward 112 districts that are lagging behind in specific development parameters** of health and nutrition, education, agriculture and water resources, financial inclusion, skill development, and basic infrastructure. Hence, **statement 1 is correct**.
- **NITI Aayog** anchors the programme with support from Central Ministries and the State Governments. Hence, **statement 2 is correct**.
- Officers at the level of Joint Secretary / Additional Secretary have been nominated to become the '**Central Prabhari Officers**' of each district.
- The broad contours of the programme are:
 - **Convergence** (of Central & State Schemes),
 - **Collaboration** (of Central, State level Nodal Officers & District Collectors), and
 - **Competition** among districts. Hence, **statement 3 is correct**.

5. Answer: A

Explanation:

About Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP)

- With an objective of **making quality generic medicines available at affordable prices to all**, Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) was launched by the **Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers** in 2008. Hence, **statement 1 is correct**.
- Under the scheme, dedicated outlets known as **Janaushadhi Kendras** are opened to provide generic medicines at affordable prices.
- The Scheme is implemented by the **Pharma & Medical Bureau of India (PMBI)**, a society established under the Department of Pharmaceuticals.
- The Scheme is operated by **government agencies as well as by private entrepreneurs**. Hence, **statement 2 is incorrect**.

Who can open a Pradhan Mantri Bhartiya Jan Aushadhi Kendra?

- A PMBJK can be opened by:
 - Individual entrepreneur / Proprietor
 - Partnership
 - Charitable Institute/Hospital
 - NGO/ Trust/ Society
 - Government/ Government Nominated Agency.

OFFICERS IAS ACADEMY

IAS ACADEMY RUN BY FORMER CIVIL SERVANTS

Why in News?

- Prime Minister Narendra Modi dedicated 18 Pradhan Mantri Bhartiya Jan Aushadhi Kendras at various railway stations across the country.

