

## Solutions to Quiz – 23 September

### Solutions & Explanations

#### Q1. Answer: C – 1-C, 2-B, 3-D, 4-A

- **Bagram Air Base** – Afghanistan: Largest U.S. base in Afghanistan, often in news post-withdrawal.
  - **Al Udeid Air Base** – Qatar: Hosts the U.S. Central Command, key hub in West Asia.
  - **Nur Khan Air Base** – Pakistan: Major airbase near Islamabad, formerly Chaklala Air Base.
  - **Incirlik Air Base** – Turkey: Strategic NATO base used by the U.S. and Turkey.
  - Source: IT
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#### Q2. Answer: C

- Smog-eating photocatalytic coatings, typically made with **titanium dioxide (TiO<sub>2</sub>)**, use light energy to break down NO<sub>x</sub> and organic pollutants into harmless substances, improving air and water quality.
  - Primary purpose: **Reduce nitrogen dioxide (NO<sub>2</sub>) and harmful hydrocarbons in public spaces.**
  - Source: IE
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#### Q3. Answer: B – Only 2

- Sawalkote Project is a **run-of-the-river hydroelectric project**, not storage-based.
  - Proposed on the **Chenab River** in Ramban and Udhampur districts of Jammu and Kashmir.
  - Source: IE
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#### Q4. Answer: D

- **AIRAWAT-PSAI, Pratyush, and Mihir** are supercomputers of India for weather and climate research.
  - They improve **weather forecasting, climate modeling, and monsoon predictions.**
  - Source: TH
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#### Q5. Answer: B – 2 and 3 only

- Statement 2  : Implemented by **National Horticulture Board (NHB)**.
- Statement 3  : Provides farmers with **high-quality, virus-free planting material.**

- Statement 1 ✗ : Conceptualized with **Asian Development Bank (ADB)**, not the World Bank.
  - Source: PIB
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**Q6. Answer: A – 1 only**

- Statement 1 ✓ : Launched by **Indian Council of Agricultural Research (ICAR)**.
  - Statement 2 ✗ : It strengthens **partnerships with Brazil**, not Britain.
  - Source: PIB
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**Q7. Answer: D – Neither 1 nor 2**

- Statement 1 ✗ : Ballon d'Or is in **football**, not tennis.
  - Statement 2 ✗ : Ousmane Dembele became the **sixth French player**, not the first.
  - Source: DD News
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**Q8. Answer: C – Both 1 and 2**

- Statement 1 ✓ : Polluted river stretch = **two or more polluted locations on a river in continuous sequence**, BOD > 3 mg/L.
  - Statement 2 ✓ : **Maharashtra** has the highest number (54) of polluted river stretches.
  - Source: IE
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**Q9. Answer: D – 1, 2 and 3**

- Statement 1 ✓ : Gram Panchayats awarded first time in **2025**.
  - Statement 2 ✓ : MP's **Sampada 2.0** won Gold Award for fully paperless and faceless registration.
  - Statement 3 ✓ : NAeG awarded annually by **DARPG** with financial grants for innovation.
  - Source: PIB
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**Q10. Answer: A – 1 only**

- Statement 1 ✓ : **New START Treaty**, signed in 2010, entered into force in 2011, limits 1,550 deployed strategic nuclear warheads and 700 delivery systems.
- Statement 2 ✗ : Not indefinite; initially 10 years, extendable 5 years, can be withdrawn with notice.



- Source: DD News