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DAILY QUIZ — SOLVED

Quiz — April 21, 2026

21 April 2026



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DAILY QUIZ — SOLVED ANSWER KEY

Quiz — April 21, 2026

21 April 2026 · 10 Questions · Answers & Explanations Included

Question 1 of 10

The First Battle of Panipat (1526) is historically significant for which of the following reasons?

1. It marked the end of the Delhi Sultanate.
2. It was the first large-scale use of gunpowder weapons in an open-field battle in India.
3. Babur used the Tulughma flanking tactic combined with Ottoman artillery. Select the correct answer:

 A 1 and 2 only

 B 2 and 3 only

 C 1 and 3 only

 D 1, 2, and 3 ✓

ANSWER & ANALYSIS

 **EXPLANATION**

All three statements are correct. The battle ended the Lodi dynasty (last of the Delhi Sultanate, 1206–1526), introduced mass battlefield use of gunpowder weapons in India, and Babur employed the Tulughma double-envelopment tactic with Ottoman matchlocks and artillery under Ustad Ali Quli.

 **CONCEPT NOTE**

Ibrahim Lodi died on the battlefield — the last Delhi Sultan to fall fighting. Babur's ~12,000 troops defeated ~100,000 Lodi forces.

Q1  **CONCEPT KIT**

Question 2

of 10

National Civil Services Day is observed on April 21 to commemorate:

- A The date India became a republic in 1950
- B **Sardar Vallabhbhai Patel's address to the first IAS probationers in 1947 ✓**
- C The passage of the All India Services Act, 1951
- D The establishment of the Union Public Service Commission

ANSWER & ANALYSIS

 **EXPLANATION**

April 21, 1947 — Sardar Vallabhbhai Patel addressed the first batch of IAS (then ICS) probationers at Metcalfe House, Delhi, calling civil servants the 'steel frame of India.' National Civil Services Day has been observed since 2006.

 **CONCEPT NOTE**

PM Awards for Excellence in Public Administration (PMAEPA) — ₹20 lakh per award — are conferred on this day.

Q2

 **CONCEPT KIT**

Question 3

of 10

Which of the following correctly describes 'Mission Karmayogi'?

- A A lateral entry programme to recruit domain experts at Joint Secretary level
- B India's national programme for civil services capacity building approved in September 2020 ✓
- C A scheme to provide laptops and digital training to Anganwadi workers
- D A programme for rural employment guarantee under the Ministry of Rural Development

ANSWER & ANALYSIS

 **EXPLANATION**

Mission Karmayogi (National Programme for Civil Services Capacity Building — NPCSCB) was approved by the Cabinet in September 2020. Its pillars include the iGOT platform, Competency Framework, Capacity Building Commission (created 2021), and Annual Capacity Building Plans.

 **CONCEPT NOTE**

iGOT (Integrated Government Online Training) — 30+ lakh government employees registered. Lateral entry is a separate initiative introduced in 2018.

Q3  **CONCEPT KIT**

Question 4

of 10

Odisha has become India's first state to implement Marine Spatial Planning (MSP) in partnership with which organisation?

- A National Institute of Ocean Technology (NIOT)
- B National Centre for Coastal Research (NCCR) ✓
- C Geological Survey of India (GSI)
- D Indian National Centre for Ocean Information Services (INCOIS)

ANSWER & ANALYSIS

EXPLANATION

Odisha implemented MSP in partnership with the National Centre for Coastal Research (NCCR) — under the Ministry of Earth Sciences — as part of the Indo-Norway Integrated Ocean Initiative launched in 2019.

CONCEPT NOTE

NCCR is headquartered in Chennai. Chilika Lake — Asia's largest brackish lagoon and India's first Ramsar Wetland (1981) — is a critical MSP focus area.

Q4

 **CONCEPT KIT**

Question 5 of 10

Consider the following statements about the Sundarbans:

- 1 It is designated as a UNESCO World Heritage Site (1987) and a Ramsar Wetland (1992).
- 2 Research from IISER Kolkata found microplastic concentrations surge approximately 40% during winter.
- 3 'Plastispheres' are microbial communities that form on plastic debris and may act as artificial carbon sources.

Which statements are correct?

A 1 and 3 only ✓

B 2 and 3 only

C 1 and 2 only

D 1, 2, and 3

ANSWER & ANALYSIS

 **EXPLANATION**

Statements 1 and 3 are correct. The Sundarbans is a UNESCO WHS (1987) and Ramsar Wetland (1992). Plastispheres are microbial communities on plastic debris that leach dissolved organic carbon — acting as artificial carbon sources and potentially undermining the Sundarbans' role as a blue-carbon sink. Statement 2 is WRONG — microplastic concentrations surge ~40% during the MONSOON (not winter), reflecting the annual flush of river plastics.

 **CONCEPT NOTE**

~50% of Sundarbans microplastics are textile fibres from synthetic clothing washing. The Sundarbans stores ~54-57 million tonnes of carbon.

Q5  **CONCEPT KIT**

Question 6

of 10

India's 'blue carbon' ecosystems refer to carbon captured by:

- A Deep-sea oil reserves and natural gas fields
- B Mangroves, seagrasses, and salt marshes ✓
- C Rivers, freshwater lakes, and highland forests
- D Coral reefs and submarine volcanic systems

ANSWER & ANALYSIS

 **EXPLANATION**

Blue carbon is carbon captured and stored by coastal and marine ecosystems — specifically mangroves, seagrasses, and salt marshes. These ecosystems sequester carbon 3-5 times faster per unit area than tropical forests and store it for thousands of years in waterlogged sediments.

 **CONCEPT NOTE**

Blue carbon is distinct from 'green carbon' (terrestrial forests). The Sundarbans is one of Asia's most significant blue carbon stores.

Q6

 **CONCEPT KIT**

Question 7 of 10

Regarding heatwaves in India, which of the following is correct?

- A Heatwaves are classified as a 'notified disaster' under the Disaster Management Act, 2005
- B Heatwaves are NOT classified as a 'notified disaster,' meaning SDRF/NDRF relief mechanisms do not automatically activate ✓
- C India uses wet-bulb temperature thresholds to officially classify heatwaves
- D The Disaster Management Act, 2005 treats heatwaves and cold waves identically

ANSWER & ANALYSIS

 **EXPLANATION**

Heatwaves are NOT classified as a 'notified disaster' under the Disaster Management Act, 2005. This means SDRF (State Disaster Response Fund) and NDRF (National Disaster Response Fund) don't automatically activate for heat events.

Drought and cold waves are notified; heatwaves are not. India currently uses dry-bulb (not wet-bulb) temperature thresholds.

 **CONCEPT NOTE**

In 2024, extreme heat cost India 247 billion labour hours and \$194 billion in income. 400-490 million informal workers lack cooling access.

Q7

 **CONCEPT KIT**

Question 8

of 10

The 'wet-bulb temperature' threshold of 35°C is significant because:

- A It is the temperature at which the Indian Meteorological Department declares a severe heatwave
- B It represents the theoretical human survivability limit — the body cannot cool itself through sweating above this temperature ✓
- C It is the threshold for activating NDRF heat emergency protocols
- D It is the average temperature of the Indo-Gangetic Plain in May

ANSWER & ANALYSIS

 **EXPLANATION**

A wet-bulb temperature of 35°C is the theoretical human survivability limit. Above this threshold, the body cannot cool itself through sweating even in the shade with unlimited water — resulting in hyperthermia and death within hours. The IPCC projects parts of South Asia crossing this threshold by 2050 under high-emission scenarios.

 **CONCEPT NOTE**

India currently classifies heatwaves using dry-bulb temperatures (40°C+ for plains). Parts of coastal India and the IGP have already recorded wet-bulb temperatures of 31-33°C in peak summer.

Q8

 **CONCEPT KIT**

Question 9

of 10

India was classified as a 'Category A' nation by the Athletics Integrity Unit (AIU). Which statement correctly explains this classification?

- A It means India's athletes are exempt from out-of-competition doping tests at international events
- B It designates India as the highest doping-risk nation in athletics, subjecting athletes to the most intensive testing and whereabouts requirements ✓**
- C It refers to India's tier in the World Athletics competition eligibility framework
- D It is a positive classification awarded to nations with zero anti-doping rule violations

ANSWER & ANALYSIS

 **EXPLANATION**

Category A in the AIU's Risk Categorisation System designates the highest doping-risk nations. Indian athletes are subject to the most intensive whereabouts tracking (mandatory quarterly filing), out-of-competition testing, and Athlete Biological Passport monitoring.
India recorded 260 doping violations in 2024 — the highest globally.

 **CONCEPT NOTE**

NADA enforces anti-doping rules under the National Anti-Doping Act, 2022. The National Anti-Doping Tribunal (NADT) adjudicates cases.
WADA accredited lab: NDTL, New Delhi.

Q9

 **CONCEPT KIT**

Question 10 of 10

In the context of semiconductor technology, 'Through-Glass Vias (TGVs)' refer to:

- A Optical fibre cables connecting semiconductor fabrication units in different countries
- B Conductive channels passing vertically through a glass substrate to connect stacked chips ✓
- C Inspection windows in cleanroom semiconductor fabrication facilities
- D A type of transistor gate material used in sub-2nm chip fabrication

ANSWER & ANALYSIS

 **EXPLANATION**

Through-Glass Vias (TGVs) are microscopic conductive channels (filled with metal, typically copper) drilled through a glass substrate. They allow vertical interconnection between chips stacked on top of each other in 3D packaging, enabling heterogeneous integration of logic, memory, and other chip types in a single compact package.

 **CONCEPT NOTE**

India's first 3D glass chip packaging facility in Bhubaneswar, Odisha has a capacity of 70,000 panels and 50 million units annually. This aligns with the India Semiconductor Mission (₹76,000 crore).

Q10  **CONCEPT KIT**



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— Aristotle