GYANSHILA IAS
Learning Institute

DAILY GENERAL AWARENESS QUIZ

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Friday, 18 September 2026

1. Recently, the Prime Minister of India extended greetings to people on Nuakhai. In context to the same tell us, Nuakhai is an important social agricultural festival celebrated primarily in which region of Odisha?

(A) Coastal Odisha **(B)** Northern Odisha
(C) Western Odisha **(D)** Southern Odisha

2. Defence Accounts Department Resolves Discrepant Pension Cases on SPARSH Portal in Major Milestone. In context to the same tell us, which organization administers the SPARSH pension portal?

(A) Staff Selection Commission
(B) Reserve Bank of India
(C) Defence Accounts Department
(D) Department of Military Affairs

3. Kerala Climbers Scale Unconquered 6,318-Metre Ramjak Peak in Himachal's Lahaul Region. In context to the same tell us, Ramjak Peak is located in which region of Himachal Pradesh?

(A) Lahaul **(B)** Spiti
(C) Kinnaur **(D)** Chamba

4. Core Gut Microbiome Remains Resilient to Urban Migration in Pangwala Community: Study. In context to the same tell us, The Pangwala are a Scheduled Tribe primarily residing in which region of Himachal Pradesh?

(A) Spiti Valley **(B)** Kangra Valley
(C) Pin Valley **(D)** Pangi Valley

5. Centre Issues Fresh Draft Notification to Declare 573.95 Sq Km Eco-Sensitive Zone Around Nagarahole Tiger Reserve. In context to the same tell us, Nagarahole Tiger Reserve is primarily located in which state of India?

(A) Andhra Pradesh **(B)** Kerala
(C) Tamil Nadu **(D)** Karnataka

6. Munshi–Ayyangar Formula: The Historical Compromise behind Hindi Diwas.
Consider the following statements regarding the Munshi–Ayyangar Formula:
(1) It declared Hindi in the Devanagari script as the national language of India.
(2) It allowed English to continue alongside Hindi for an initial period of 15 years.
(3) International form of Indian numerals was adopted for official Union purposes.
Which of the above is/are correct?

(A) Only (1) and (3) **(B)** Only (1) and (2)
(C) Only (2) and (3) **(D)** None of the above

7. Celtic Nations Unite in Cardiff to Demand Constitutional Reform and Self-Determination.
Consider the following statements regarding the historical formation of the United Kingdom:
(1) The Acts of Union in 1707 formally united the English and Scottish parliaments.
(2) Ireland was brought into the Union in the 16th century following the annexation of Wales.
(3) Northern Ireland remained in the UK after the partition of Ireland in 1920.
Which of the above is/are correct?

(A) Only (1) and (3) **(B)** Only (1) and (2)
(C) Only (2) and (3) **(D)** None of the above

8. Green Gold Rush: How Bamboo is Powering Rural Entrepreneurship and the Sustainable Economy.
Consider the following statements regarding Bamboo:
(1) Bamboo belongs to the subfamily Bambusoideae of the grass family Poaceae.
(2) Bamboo primarily reproduces through seed-based propagation due to its frequent flowering.
(3) According to the Forest Survey of India, bamboo resources are heavily concentrated in Northeastern states.
Which of the above is/are correct?

(A) Only (1) and (3) **(B)** Only (1) and (2)
(C) Only (2) and (3) **(D)** None of the above

1-{C} - 2-{C} - 3-{A} - 4-{D} - 5-{D} - 6-{C} - 7-{A} 8-{A}

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DAILY GENERAL STUDIES QUIZ

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Friday, 18 September 2026 GEOGRAPHY

1. Which of the following best explains the occurrence of a "rain shadow" region?
(A) Rising air warms adiabatically on the windward slope
(B) Descending air warms adiabatically on the leeward slope
(C) Ocean currents increase humidity on the leeward slope
(D) Surface friction prevents condensation on mountain slopes

2. In plate tectonics, a Wadati–Benioff zone is associated with:
(A) Mid-oceanic ridges
(B) Transform faults
(C) Subduction zones
(D) Continental rift valleys

3. Which of the following conditions would most strongly favour the formation of a thermocline in the upper ocean?
(A) Strong vertical mixing and weak solar heating
(B) Intense surface heating with limited vertical mixing
(C) Uniform cooling throughout the water column
(D) Persistent deep-water convection

4. The occurrence of shallow-focus earthquakes along mid-ocean ridges is primarily related to:
(A) Compression of continental crust
(B) Subduction of oceanic lithosphere
(C) Extension and fracturing of newly forming oceanic crust
(D) Collision of two continental plates

5. Which of the following best describes the concept of "continentality" in climatology?
(A) Influence of altitude on temperature
(B) Influence of distance from the sea on climate
(C) Influence of latitude on solar radiation
(D) Influence of vegetation on rainfall

6. Which of the following is the most important cause of the deflection of ocean currents to the right in the Northern Hemisphere?
(A) Gravitational attraction of the Moon
(B) Coriolis effect
(C) Salinity gradient
(D) Atmospheric pressure alone

7. Which of the following geomorphic features is most directly associated with rejuvenation of a river?
(A) Natural levee
(B) Incised meander
(C) Delta
(D) Oxbow lake

8. In climatology, a "blocking high" refers to:
(A) A short-lived equatorial low-pressure system
(B) A persistent high-pressure system that disrupts normal westerly circulation
(C) A tropical cyclone that blocks monsoon winds
(D) A permanent subtropical anticyclone over oceans

9. Which of the following best explains why oceanic crust is generally much younger than continental crust?
(A) Oceanic crust contains more radioactive minerals
(B) Oceanic crust is continuously created and destroyed through plate tectonics
(C) Continental crust is never affected by erosion
(D) Oceanic crust forms only near continental margins

10. Which of the following best characterizes a temperature inversion in the lower atmosphere?
(A) Temperature decreases rapidly with height
(B) Temperature remains constant with height
(C) Temperature increases with height over a certain layer
(D) Temperature falls below 0°C at all levels

1-{B}-2-{C}-3-{B}-4-{C}-5-{B}-6-{B}-7-{B}-8-{B}-9-{B}-10-{C}

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DAILY STATIC GK ONE-LINERS

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Friday, 18 September 2026

IMPORTANT INTERNATIONAL ORGANIZATIONS AND THEIR REPORTS – PART 2

Latest & Verified Data up to August 2026

6 FAO – FOOD AND AGRICULTURE ORGANIZATION

fao.org

The State of Food Security and Nutrition in the World (SOFI)	— hunger, food security and nutrition.
The State of the World's Forests (SOFO)	— status of the world's forests.
The State of World Fisheries and Aquaculture (SOFIA)	— fisheries and aquaculture.
Food Outlook	— global food commodity markets and forecasts.

7 ILO – INTERNATIONAL LABOUR ORGANIZATION

ilo.org

World Employment and Social Outlook (WESO)	— employment and labour-market trends.
Global Wage Report	— wages, wage inequality and purchasing power.

8 WHO – WORLD HEALTH ORGANIZATION

who.int

World Health Statistics	— global health indicators and SDG-related health statistics.
Global Tuberculosis Report	— TB burden, diagnosis, treatment and progress.
Global Report on Diabetes	— diabetes-related data, trends and response.

Exam Correction: World Health Report is not a current annual WHO report; it is not a regular annual series.

9 TRANSPARENCY INTERNATIONAL

transparency.org

Corruption Perceptions Index (CPI)	— ranking of countries based on the perceived level of public-sector corruption.

10 REPORTERS WITHOUT BORDERS – RSF

rsf.org

World Press Freedom Index	— assesses the situation of press / media freedom in countries.

11 ECONOMIST INTELLIGENCE UNIT – EIU

eiu.com

Democracy Index	— evaluates the state of democracy in countries.
Global Liveability Index	— assesses liveability conditions of cities.

12 UNICEF – UNITED NATIONS CHILDREN'S FUND

unicef.org

The State of the World's Children (SOWC)	— flagship report on children's rights, health, education and well-being.

13 IEA – INTERNATIONAL ENERGY AGENCY

iea.org

World Energy Outlook (WEO)	— key outlook on global energy demand, supply, security and energy transition.

EXAM TRAP: WEO is an acronym used by both IMF (World Economic Outlook) and IEA (World Energy Outlook). Always check the organization before answering.



Friday, 18 September 2026

Quantum Battery



In India, **research and development in the field of quantum technology** is being promoted through the **National Quantum Mission**. **DST** plays a key role in advancing **quantum research and the development of the related ecosystem** in India.

Expository: -

What is Quantum Battery?-

- A quantum battery is a **quantum system capable of storing energy** in its quantum energy levels.
- It can be charged through an external electromagnetic field or a **quantum charger**.
- The useful energy that can be extracted as work is associated with the concept of **ergotropy**.
- Its performance can be assessed through **stored energy, charging time, charging power and extractable work**.

Working Principle — Quantum Mechanics-

- Quantum batteries can exploit **quantum superposition**, where a quantum system can exist in multiple states simultaneously.
- **Quantum coherence** can influence the speed and efficiency of energy transfer.
- Connecting several quantum units can produce **collective effects** that enhance charging power under suitable conditions.
- **Quantum entanglement** and other many-body effects are being studied for improving charging performance.

History and Development-

- The modern concept of a quantum battery is associated with theoretical work by **Robert Alicki and Mark Fannes in 2013**.
- In **2017**, researchers studied how collective quantum effects could enhance charging power.
- The **Dicke quantum battery** became an important theoretical model for studying collective charging.
- Recent research has expanded into **solid-state, optical and open quantum systems**.

Types of Quantum Battery-

- **Dicke Quantum Battery:** Uses multiple two-level quantum systems coupled collectively to an electromagnetic cavity.
- **Spin-Chain Quantum Battery:** Uses interacting spin systems for storing and transferring energy.
- **Solid-State Quantum Battery:** Uses quantum systems implemented in solid-state materials.
- **Optical Quantum Battery:** Uses photons and other optical quantum states for energy storage and extraction.

Key Features / Characteristics-

- **Fast Charging:** Collective quantum effects can potentially increase charging power.
- **Quantum Coherence:** Plays an important role in controlling energy-transfer dynamics.
- **Ergotropy:** Represents the portion of stored energy that can potentially be extracted as useful work.
- **Collective Charging:** Multiple quantum units can be charged collectively, potentially providing a quantum advantage.

Quantum Battery vs Traditional Battery-

- Traditional batteries store energy mainly through **chemical reactions**, whereas quantum batteries store energy in **quantum states**.
- Conventional batteries depend on **electrochemical processes**, while quantum batteries rely on controlled quantum dynamics.
- Quantum batteries may offer advantages in **charging speed and charging power**.
- Traditional batteries are commercially established, whereas quantum batteries remain largely at the **research and experimental stage**.

Advantages-

- **Rapid charging** is one of the most important potential advantages.
- Collective quantum effects may provide **higher charging power**.
- Quantum coherence and interactions can potentially improve **energy-transfer performance**.
- They could become useful for **quantum technologies and miniature energy-storage systems**.

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MAP OF THE DAY BHARAT

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Friday, 18 September 2026

Dimna Lake



Dimna Lake, an important reservoir of **Jamshedpur, Jharkhand**, was among **25 lakes** after which spectator galleries were named during the **80th Independence Day** celebrations at the **Red Fort.**

KEY FACTS

- It is an **artificial reservoir** located at the foothills of the **Dalma Range.**
- The lake was developed by **Tata Steel** to meet the growing water needs of Jamshedpur's expanding industrial population.
- It remains an important source of **water supply** for the city.
- The reservoir was constructed under the **Dimna Nala Water Supply Scheme** by **Tata Steel.**
- Construction began in **1940** and was completed in **1944.**
- Water from the reservoir was supplied to Jamshedpur for the first time on **17 April 1944.**
- It was designed with a storage capacity of around **7,500 million gallons.**
- The reservoir was created by **damming the Dimna Nala,** which is part of the local drainage system.
- It covers approximately **27 sq. km** and was primarily developed to meet **industrial and urban water requirements.**

CONSTRUCTION & DEVELOPMENT

- **1940** • Construction work started under **Dimna Nala Water Supply Scheme.**
- **1944** • Construction completed.
- **17 April 1944** • Water supplied to Jamshedpur for the first time.
- Storage capacity designed: **~ 7,500 million gallons.**
- Created by damming Dimna Nala (local drainage system).
- Covers approx. **27 sq. km.**
- Developed to meet industrial and urban water requirements.

LOCATION	TYPE	DEVELOPER	PURPOSE	SOURCE	AREA	CAPACITY	SIGNIFICANCE
Jamshedpur, Jharkhand	Artificial Reservoir	Tata Steel	Water supply for industrial & urban needs	Dimna Nala	Approx. 27 sq. km	~ 7,500 million gallons	Important water source for Jamshedpur; recognized in 80th Independence Day

EXAM RELEVANCE: Geography (Water Resources) • Jharkhand Knowledge • Important Lakes • Current Affairs (80th Independence Day 2026)

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MAP OF THE DAY WORLD

Friday, 18 September 2026

LIBERIA
(REPUBLIC OF LIBERIA)

Liberia is a historically significant and sovereign country located on the West African coast, known for its rich cultural diversity and remarkable history.

LOCATION	Located on the West African coast.
BORDERS	Northwest: Sierra Leone North: Guinea | East: Ivory Coast South & Southwest: Atlantic Ocean
POPULATION	Approximately 5.5 million (55 lakh)
AREA	43,000 square miles (111,369 square km)
LANGUAGE	Official language: English More than 20 local languages are spoken.
CAPITAL & LARGEST CITY	Monrovia
FORM OF GOVERNMENT	Republic
CURRENCY	Liberian Dollar (LRD)





HISTORY – KEY FACTS

- **Early 19th century:** The American Colonization Society (ACS) initiated a project to establish Liberia.
- **1822 – 1861:** Between 1822 and 1861, more than 15,000 free and native African Americans migrated to Africa.
- **1822 – 1861:** Along with them, 3,198 African-Caribbeans also settled in Liberia.
- **26 July, 1847:** Liberia declared its independence.
- **5 February, 1862:** The United States recognized Liberia.
- ★ **Liberia was the first African republic to gain independence.**
- ★ **It is the oldest continuously independent country in Africa.**

INTERESTING FACTS

- Ethiopia was never colonized, but faced Italian occupation from 1936 to 1941.
- Both Liberia and Ethiopia remained independent during European colonial scramble for Africa.

LIBERIA TODAY

Liberia is a democratic republic with a diverse population, rich cultural heritage, and vast natural resources.

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DAILY CURRENT AFFAIRS QUIZ

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Friday, 18 September 2026

1. Who has been selected for the Dadasaheb Phalke Award for the year 2024?
(A) Mohanlal **(B)** Anant Nag
(C) Mammootty **(D)** Rishab Shetty

2. Exercise Eager Lion 2026 is being conducted jointly by which two countries?
(A) United States and Jordan
(B) United States and Egypt
(C) Jordan and India
(D) United States and India

3. Which country's cricketer Brendan Taylor recently broke Sachin Tendulkar's record for the longest ODI career?
(A) Zimbabwe **(B)** Sri Lanka
(C) South Africa **(D)** Australia

4. Which state recently introduced the Child Protection Policy 2026 with a focus on protection from online child sexual abuse and exploitation?
(A) Karnataka **(B)** Rajasthan
(C) Maharashtra **(D)** Gujarat

5. Which village was declared Ladakh's first designated Heritage Village in September 2026?
(A) Stok **(B)** Hunderman
(C) Kumik **(D)** Chumur

6. Who will receive the Padmabhushan Guru Dr Saroja Vaidyanathan Excellence Award 2026?
(A) Mallika Sarabhai
(B) Vasundhara Doraswamy
(C) Sonal Mansingh
(D) Shovana Narayan

7. The 69th Commonwealth Parliamentary Conference 2026 is being held in which city?
(A) Johannesburg **(B)** Cape Town
(C) Durban **(D)** Pretoria

8. What MDR has been proposed for specified P2M UPI transactions exceeding ₹2,000?
(A) 0.02% **(B)** 0.20%
(C) 0.40% **(D)** 0.50%

9. According to the latest 2026 assessment, how many greater one-horned rhinoceroses are estimated to be present globally?
(A) 3,525 **(B)** 3,050
(C) 4,875 **(D)** 4,075

10. What is the theme of World Ozone Day 2026, which marks 10 years of the Kigali Amendment?
(A) Global Action for a Cooler Planet
(B) Ozone for a Sustainable Future
(C) Protecting Ozone, Protecting Life
(D) Climate Action for Future Generations

1-{B} - 2-{A} - 3-{A} - 4-{D} - 5-{C} - 6-{B} - 7-{B} - 8-{C} - 9-{D} -10-{A}