



27 July 2024

National and International News

<p>IndiaAI Mission</p>	<p>Why in the news?</p> <ul style="list-style-type: none"> ● AI Mission, With fresh budgetary allocation, the IT Ministry looks to procure up to 500 GPUs. <p>About IndiaAI Mission:</p> <ul style="list-style-type: none"> ● Initial Steps: <ul style="list-style-type: none"> ○ Tender to procure 300 to 500 GPUs for private sector AI development. ○ Focus on AI compute, skilling, data sets, and applications. ● Mission Goals: <ul style="list-style-type: none"> ○ Establish computing capacity of over 10,000 GPUs. ○ Develop foundational AI models with over 100 billion parameters. ○ Models trained on datasets covering major Indian languages for sectors like healthcare, agriculture, and governance. ● Public-Private Partnership Model: <ul style="list-style-type: none"> ○ 50% viability gap funding for computing infrastructure. ○ Rs 4,564 crore earmarked for building computing infrastructure. ○ Rs 2,000 crore allocated for deeptech startup financing. ● IndiaAI Innovation Research Centre: <ul style="list-style-type: none"> ○ Develop and deploy large foundational AI models. ○ Focus on indigenous Large Multimodal Models and domain-specific foundational models. ○ Rs 2,000 crore allocated for the research centre. ● Educational Support: Financial support for 4,000 BTech, 400 MTech, and 600 PhD candidates focusing on AI in premier institutions.
<p>Moidams</p>	<p>Why in the news?</p> <ul style="list-style-type: none"> ● In a significant cultural achievement for India, "Moidams – the Mound-Burial System of the Ahom Dynasty" from Assam has been officially inscribed on the UNESCO World Heritage List. <p>Key points:</p> <ul style="list-style-type: none"> ● The announcement was made on July 26, 2024, during the 46th session of the World Heritage Committee in New Delhi.



- This marks the **43rd property from India to be included on the list.**
- This is the **third World Heritage Property from Assam**, following **Kaziranga National Park** and **Manas Wildlife Sanctuary**, both inscribed under the **Natural category in 1985.**

About Moidams:

- **Location:** Foothills of the **Patkai Ranges** in eastern **Assam.**
- **Historical Context:**
 - Created by the **Tai-Ahom people** who arrived in Assam in the **13th century.**
 - **Charaideo** was established as their **first city and site of the royal necropolis.**
 - Moidams were **constructed from the 13th to the 19th century CE.**
- **Construction:**
 - **Early mounds were made of wood; later ones built with stone and burnt bricks.**
 - Known as "**home-for-spirit,**" incorporating natural elements like hills, forests, and water.
 - Documented in **Changrung Phukan, traditional Tai-Ahom literature.**

Mission Karmayogi**Why in the news?**

- Union Minister Dr. Jitendra Singh stated that the Government launched the **National Program for Civil Services Capacity Building (NPCSCB)**, also known as **Mission Karmayogi**, to **recognize and enhance the crucial role of Civil Services in achieving India's developmental aspirations and national priorities.**

About Mission Karmayogi:

- **Launch Date:** September 2020
- **Objective:** To **enhance the capacity and competency of civil servants** to align with India's developmental aspirations and national priorities.
- **Key Components:**
 - **iGOT Karmayogi:** An online learning platform offering courses and training programs.
 - **Competency Framework:** Focuses on improving domain knowledge, functional skills, and behavioral competencies.
 - **Capacity Building Commission:** Oversees the implementation and regulates standards.
- **Governance:**
 - **Prime Minister's Human Resource Council:** Provides strategic direction.
 - **Cabinet Secretariat Coordination Unit:**



	<p>Manages the implementation.</p> <ul style="list-style-type: none"> ● Implementation Approach: <ul style="list-style-type: none"> ○ Emphasizes continuous learning and development. ○ Involves both on-site and digital learning methods. ○ Encourages a shift from rule-based to role-based human resource management. ○ Target Audience: All civil servants from the central and state governments. ● Innovative Features: <ul style="list-style-type: none"> ○ Customized learning paths for individual needs. ○ Real-time monitoring and evaluation of progress. ○ Integration of best practices and global learning resources. ○ Mission Karmayogi aims to create a competent civil service that can effectively tackle current and future challenges, driving India's growth and development.
<p>Dark oxygen</p>	<p>Why in the news?</p> <ul style="list-style-type: none"> ● Scientists discover 'dark oxygen' produced on a deep-ocean floor where the Sun doesn't shine. <p>About Dark oxygen:</p> <ul style="list-style-type: none"> ● Discovery of Dark Oxygen: New evidence suggests oxygen can be produced by electrolysis on the ocean floor, challenging traditional views of the origin of life. ● Photosynthesis vs. Electrolysis: <ul style="list-style-type: none"> ○ Traditionally, oxygen supporting life is produced by photosynthetic organisms (plants, algae). ○ New discovery shows oxygen can be produced 4,000 meters below the surface through electrolysis. ● Polymetallic Nodules: Electric voltage in seabed mineral masses (polymetallic nodules) can split seawater into oxygen and hydrogen. ● Dark Oxygen: <ul style="list-style-type: none"> ○ Oxygen produced in the absence of sunlight is termed "dark oxygen". ○ Previous evidence of bacteria producing oxygen without photosynthesis (e.g., <i>Candidatus Methyloirabilis oxyfera</i>). ● Significance of Discovery: <ul style="list-style-type: none"> ○ First evidence of oxygen production at the seafloor. ○ Challenges the belief that deep-sea oxygen comes solely from the atmosphere and



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	<p>photosynthesis.</p> <ul style="list-style-type: none"> • Implications for Origin of Life: <ul style="list-style-type: none"> ○ Questions the long-standing understanding of how life began on Earth. ○ Suggests dark oxygen production in the deep sea is more significant than previously thought.
<p>NuMI Off-axis ve Appearance (NOvA) Experiment</p>	<p>Why in the news?</p> <ul style="list-style-type: none"> • New data from the NOvA experiment adds to the mystery of neutrino mass. <p>About NOvA experiment:</p> <ul style="list-style-type: none"> • Experiment Purpose: Study of neutrinos, one of nature's most elusive particles. • Management: Managed by the U.S. Department of Energy's Fermi National Accelerator Laboratory (Fermilab). • Location: Fermilab is located outside of Chicago, USA. • Neutrino Beam: Fermilab sends a beam of neutrinos 500 miles north to Ash River, Minnesota. • Research Focus: Measuring neutrinos and their antimatter partners, antineutrinos, at both locations. • Phenomenon Studied: Neutrino oscillation, which is the change in type of neutrinos as they travel. • Aim: To learn more about the ordering of neutrino masses.



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