# TO THE POINT CURRENT AFAARS June 2023 - August 2023

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# for UPSC CSE 2024



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#### MALUKA IAS

#### AGRICULTURE

#### 1. DIRECT-SEEDING METHOD

Farmers in leading rice-growing states are adopting the direct-seeding method as a solution to delayed rains and labor shortages.

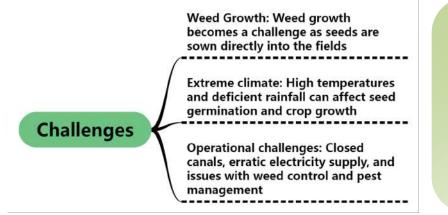
#### **DIRECT-SEEDING METHOD**



- Direct Seeded Rice (DSR), also known as the 'broadcasting seed technique,' is a water-saving method of sowing paddy.
- In this method, seeds are directly drilled into the fields, eliminating the need for nursery preparation and transplantation.

#### **ADVANTAGES**

Reduction in Labor	Drum seeders reduce labor requirements to just two workers per acre, a stark contrast to the 25-30 laborers needed in traditional methods. This slashes labor costs and lightens the workload for farmers.
Time and Resource Saving	By skipping nursery cultivation, farmers save 30 days in the crop cycle, enabling an early start to the rabi season and avoiding untimely rains during harvesting.
Water Conservation	• Direct-seeding cuts water needs by 15%, as water logging occurs a month later. Particularly advantageous in areas with delayed rainfall.
Enhanced Yield	<ul> <li>Research and field surveys show a yield increase of one to two quintals per acre with this technique compared to puddled transplanted rice.</li> </ul>



#### SUCCESSFUL IMPLEMENTATIONS

 The direct-seeding method has gained traction in various regions, including Punjab, Telangana, and Andhra Pradesh.

 In Andhra Pradesh alone, an NGO has implemented this method on approximately 4,000 hectares, resulting in significant cost savings.

#### 2. WORLD FOOD PROGRAM

The United Nations World Food Program (WFO) has temporarily **suspended food aid to Ethiopia** because its supplies are being **diverted to the Ethiopian military**.

#### ABOUT

STATUS	<ul> <li>The World Food Program (WFP) is an international organization within the United Nations (UN). Its Parent organization is the UN General Assembly.</li> </ul>
PURPOSE	<ul> <li>It is the world's largest humanitarian organization that provides food assistance worldwide. It aims to achieve the Sustainable Development Goal (SDG) 2 which is about creating a world free of hunger by 2030.</li> </ul>
BACKGROUND	<ul> <li>It was established in 1961 after the 1960 Food and Agriculture Organization (FAO) Conference. It launched its First development program in Sudan in 1963.</li> </ul>
HEADQUARTERS	Rome, Italy
ACHIEVEMENTS	WFP was awarded the Nobel Peace Prize 2020 for its efforts to provide food assistance in areas of conflict.
HUNGER HOTSPOTS	<ul> <li>This report is jointly published by the Food and Agriculture Organization of the United Nations (FAO) and the World Food Program (WFP).</li> </ul>



#### GOVERNANCE

•

- **Executive Board:** It is the supreme governing body of WFP. It comprises **36 States Members** of the UN or Member Nations of the Food and Agriculture Organization (FAO).
- **Executive Directors:** WFP is headed by an executive director, who is appointed jointly by the UN Secretary-General and the director-general of the Food and Agriculture Organization (FAO) of the United Nations. Sushil Dev of India served as the acting Executive Director of WFP in 1968.

#### Source: AIR

#### 3. JOHA RICE

The Joha variety of rice is found to be effective in **lowering blood glucose** and **preventing diabetes** is an effective **nutraceutical** of choice in diabetes management.

#### **JOHA RICE**



- Joha is a **short-grain winter paddy** known for its significant **aroma** and noteworthy taste.
- It is cultivated in the Northeastern region of India.
- Joha rice is also rich in several antioxidants, flavonoids, and phenolics. Some of the reported bioactive compounds are oryzanol, ferulic acid, tocotrienol, caffeic acid, catechuic acid, gallic acid, tricin, and so on, each with reported antioxidant, hypoglycaemic and cardio-protective effects.
- It got the GI (geographical indications) Tag from the Union ministry of commerce.

#### MALUKA IAS

#### **ENVIRONMENT AND ECOLOGY**

#### 1. INDIA'S FIRST CARBON NEUTRAL VILLAGE

#### Syllabus: GS3/ Conservation

India's first carbon neutral Village is being developed in Bhiwandi Taluka of Thane district, Maharashtra.

#### ABOUT

Carbon Neutrality	•	Carbon neutrality means having a balance between <b>emitting carbon</b>
		and absorbing carbon from the atmosphere in carbon sinks.
Carbon Sequestration	•	Removing carbon dioxide from the atmosphere and then storing it is
		known as carbon sequestration.
Carbon Sink	•	Carbon sink is any system that absorbs more carbon than it emits.
		The main natural carbon sinks are soil, forests and oceans.
		To date, no artificial carbon sinks are able to remove carbon from the
		atmosphere on the scale to fight global warming.
Carbon Offsetting	•	Another way to pursue carbon neutrality is to offset emissions made in
		one sector by reducing them somewhere else.
		This can be done through investment in renewable energy, energy
		efficiency or other clean, low-carbon technologies.

#### INDIA'S NET ZERO TARGET

In 2021, at COP-26, India announced an ambitious target for achieving net zero GHG-emission by 2070.

#### Source: AIR

#### 2. SPOTTED POND TURTLES



Three **mahouts** (keepers and drivers of elephants) at **Kaziranga National Park, Assam**, were arrested for capturing and consuming a rare freshwater turtle species, **spotted pond turtles**, sparking investigations into the **illegal consumption of protected species** by park employees

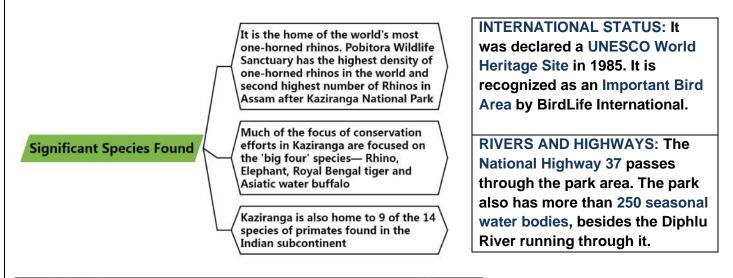
#### SPOTTED POND TURTLES

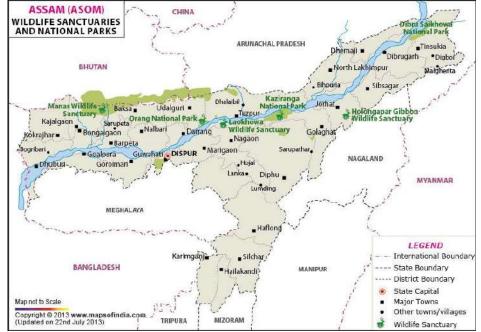
**ABOUT:** Spotted pond turtles (Geoclemyshamiltonii) are named for the yellow or white spots on their black heads, legs and tails.

- They have large heads and short snouts, and their webbed feet help them swim.
- They are also known as Black Pond Turtle, Black Spotted Turtle, Hamilton's Terrapin.
- They bask in the sun to regulate their body temperature.
- Their need for warm water and an intense basking area is important.
- When they retreat into their shells, spotted pond turtles make a soft croak.

MALUKA IAS	TO THE POINT CURRENT AFFAIRS 2024
RANGE AND HABITAT	<ul> <li>They are found in large, deep rivers in India, Assam, Pakistan and Bangladesh.</li> <li>In India, the species is distributed across the north, northeast and a few parts of central India.</li> </ul>
DIET REQUIREMENTS	These turtles are primarily carnivorous and eat aquatic invertebrates
SLEEP HABITS	Spotted pond turtles are <b>crepuscular</b> , meaning they are most active at <b>twilight (dusk and dawn)</b> .
CONSERVATION STATUS	International Union for Conservation of Nature (IUCN): Endangered CITES: Appendix I

KAZIRANGA NATIONAL PARK: It is in the State of Assam and covers 42,996 Hectare (ha). It is the single largest undisturbed and representative area in the Brahmaputra Valley floodplain. LEGAL STATUS: It was declared as a National Park in 1974. It has been declared a tiger reserve since 2007. It has a total tiger reserve area of 1,030 sq km with a core area of 430 sq. km.





#### OTHER NATIONAL PARKS IN ASSAM:

- Dibru-Saikhowa
   National Park,
- Manas National Park,
- Nameri National Park,
- Rajiv Gandhi Orang National Park

About

#### TO THE POINT CURRENT AFFAIRS 2024

**GEOGRAPHY** 

#### **1. NAMING OF CYCLONES**

A cyclonic storm "Biparjoy" has developed over the east-central and adjoining southeast Arabian Sea, according to the India Meteorological Department (IMD).

The system intensified from depression to deep depression and a cyclonic storm.

'Biparjoy' was suggested by Bangladesh and the word means 'disaster' or 'calamity' in Bengali

It is not rare for cyclones to develop in the Arabian Sea. There are fewer cyclones compared to the Bay of Bengal, but it is not uncommon

Between 1980–2019, Cyclone Gonu in June 2007 — the strongest cyclone in the Arabian Sea

June is one of the favorable months for the formation of cyclones in the Arabian Sea

#### NAMING OF CYCLONES

- The naming of cyclones is done by countries on a rotational basis, following certain existing guidelines.
- Worldwide, there are six regional specialized meteorological centres (RSMCs) and five regional Tropical Cyclone Warning Centres (TCWCs) mandated for issuing advisories and naming of tropical cyclones.
- IMD is one of the six RSMCs to provide tropical cyclone and storm surge advisories to 13 member countries under the WMO/Economic and Social Commission for Asia-Pacific (ESCAP) Panel including Bangladesh, India, Iran, Maldives, Myanmar, Oman, Pakistan, Qatar, Saudi Arabia, Sri Lanka, Thailand, United Arab Emirates and Yemen.

#### SIGNIFICANCE FOR NAMING TROPICAL CYCLONES

- It helps to identify each individual tropical cyclone.
- It facilitates disaster risk awareness, preparedness, management and reduction.
- Local and international media become focused on the tropical cyclone.
- It removes confusion where there are multiple cyclonic systems over a region.

#### **GLOBAL TERMINOLOGY**

- hurricanes in the US and the Caribbean
- cyclones in South Asia
- typhoons in East Asia
- willy-willies in Australia

They all develop in the same way, have the same characteristics and are all tropical storms.

#### **2. BETELGEUSE STAR**

Researchers from Japan and Switzerland recently reported that the Betelgeuse star is in its late carbon-burning stage.

#### ABOUT BETELGEUSE STAR



- Betelgeuse, a red supergiant star, is over 10 times the mass of the sun and, if placed at the solar system's center, its surface would reach Jupiter.
- At 10 million years old, Betelgeuse, though younger than the 5-billion-year-old Sun, is more massive, leading to faster burn through its materials consumption and a shorter lifespan compared to the Sun.
- Situated 640 light-years away, it implies that the light we observe today originated 640 years ago, making our view of it a glimpse into its past.
- Its brightness makes it easy to spot and is often the tenthbrightest star in the sky.

#### TO THE POINT CURRENT AFFAIRS 2024

• It is called 'Thiruvathirai' or 'Ardra' in Indian astronomy, and is easily spotted in the constellation Orion.

#### **BURNING STAGES OF STAR**

<ul> <li>Betelgeuse's observed pulsation matches theoretical estimates from a late carbon-burning stage, suggesting the red supergiant is in its death throes.</li> </ul>	<ul> <li>In massive stars like Betelgeuse, the carbon-burning stage lasts only up to a few hundreds of years, culminating in a rapid collapses and supernova within months.</li> </ul>
<ul> <li>Most stars, including the Sun, fuse hydrogen, to produce helium and some energy as a byproduct. This energy's outward push balances gravity's inward pull, and keeps the star from collapsing.</li> </ul>	<ul> <li>Such stars exhaust hydrogen in a few million years, shifting to helium fusion for making carbon. However, less energy is released in helium fusion, leading the star to burn through its helium in about one million years.</li> </ul>
<ul> <li>Currently, red giants like Betelgeuse sequentially burn carbon and silicon, depleting elements until their core contains iron, cobalt, and nickel.</li> </ul>	• Each of these stages is <b>shorter than the predecessor</b> . In a star like Betelgeuse, carbon burns in a few hundred years whereas <b>silicon lasts about a day</b> . So the late- carbon stage is the <b>terminal phase of Betelgeuse</b> .

#### FACTORS ALTERING THE BRIGHTNESS OF THE STAR

- Red giant stars expand and contract due to the periodic heating and cooling of the hydrogen in their outermost layers.
- As this process repeats itself, the star appears to a distant observer to dim and brighten at regular intervals.

#### **3. KALASA BANDURI PROJECT**

The Kalasa Banduri project in Karnataka is stuck again.

#### ABOUT KALASA-BANDURI PROJECT



A joint statement by Goa and Maharashtra governments says that a united fight against Karnataka regarding the water diversion project will be put



The impacts of such development projects are adverse, especially when it comes to natural resources and the need to share them between different states/territories

The project aims to divert water from Mahadayi to

Dharwad, Bagalkot and Gadag districts in Karnataka.

and Banduri streams — tributaries of Mahadayi — and

water diverted towards Karnataka's parched districts.

As per the plans, barrages are to be built on Kalasa

Though the project was first proposed in the early

between Karnataka, Goa and Maharashtra.

1980s, it has remained on paper owing to a dispute

satisfy the drinking water needs of the Belagavi,

#### MALUKA IAS

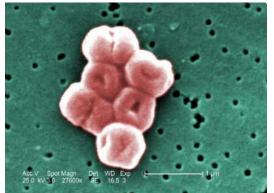
#### SCIENCE AND TECHNOLOGY

#### 1. ACINETOBACTER BAUMANNII

Recently, Scientists from the **United States and Canada** have achieved a remarkable feat in the **field of medicine** by using Artificial Intelligence (AI) to discover a powerful antibiotic called **Abaucin** capable of fighting **Acinetobacter baumannii superbug**.

This breakthrough holds immense promise in the fight against drug-resistant bacteria.

#### **ACINETOBACTER BAUMANNII**



Overuse and misuse of antibiotics have fueled the rise of drug-resistant bacteria, posing a global health concern

The WHO lists infections such as pneumonia, tuberculosis, and foodborne diseases as becoming harder to treat with existing medication due to increasing antibacterial resistance Acinetobacter baumannii is a dangerous bacterium resistant to antibiotics, as identified by the World Health Organization (WHO). It can cause severe infections like pneumonia, meningitis, and wound infections, leading to fatalities.

Typically found in **hospitals**, Acinetobacter baumannii can survive on surfaces for **long periods**, making it difficult to eradicate. Due to its remarkable capacity to develop resistance to all currently available antibiotics, it was recognised as a "red alert" human pathogen.



Antibiotic resistance occurs when bacteria adapt and become resistant to the effects of antibiotics, rendering treatments ineffective

Antibiotics are medicines used to prevent and treat bacterial infections

#### Note:

**Superbugs** are bacteria that are resistant to several types of antibiotics. WHO's list of superbugs highlighted bacteria that have **built-in abilities** to find new ways to **resist treatment** and can pass along **genetic material** that allows other bacteria to become drug resistant as well. They can also be **fungi**.

#### ABAUCIN



Abaucin is a compound that shows useful activity as a narrow-spectrum antibiotic. It is effective against Acinetobacter baumannii.

DISCOVERY

Abaucin was found with the assistance of **AI** using a **machine-learning** model approach.

Network was trained with a dataset of ~7,500 molecules screened for inhibiting Acinetobacter baumannii growth.

The network predicted structurally different molecules with activity against A. baumannii, including abaucin.

Abaucin was experimentally validated and found to have potent antibacterial activity.

#### **TO THE POINT CURRENT AFFAIRS 2024**

#### **MECHANISM OF ACTION**

Abaucin disrupts the normal function of the CCR2 protein in bacteria. This disruption hinders the movement of certain molecules inside the bacteria, preventing them from reaching the outer membrane.

As a result, the growth of Acinetobacter baumannii is inhibited, reducing its ability to cause infections.

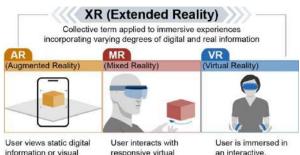
#### VISION PRO: APPLE'S FIRST SPATIAL COMPUTER 2.

Apple has unveiled the Vision Pro, a mixed reality headset that allows "spatial computing" by using the wearer's eyes, voice and hands.

#### ABOUT



Vision Pro is essentially an augmented-reality (AR) headset that "seamlessly" blends the real and digital worlds. The device can switch between augmented and full virtual reality (VR) using a dial. Apple has described the product as a "Spatial Computer".



information or visual elements integrated into the real environment

responsive virtual elements integrated into digitally-generated the real environment

environment

**SPATIAL COMPUTING** 

It offers a seamless machine to machine interaction or human-machine interaction in a three-dimensional world while using AR, VR and mixed reality.

It was defined in 2003 by Simon Greenwold.

With the increasing adoption of the IoT, VR and AR applications and devices the scope of spatial computing has expanded. It digitizes the processes, collects the data via sensors, and allows the computer hardware to control the object's functions and operations.

#### 3. CAPTAGON PILLS

Reports suggest that the Islamic State (IS) and Syrian fighters widely consumed Captagon Pills to increase alertness and suppress appetite during their gruelling battles.

#### ABOUT

Captagon is a highly addictive	• While Nazi Germany supplied Pervitin, a
amphetamine-type drug, which is produced	methamphetamine (now known as crystal
mainly in Syria and widely smuggled across	meth) to its soldiers, the Allied forces gave
West Asia.	their troops Benzedrine, which was
	amphetamine sulfate.

#### TO THE POINT CURRENT AFFAIRS 2024

#### ECONOMY

#### 1. Lightweight' Payment and Settlement System

The Reserve Bank of India (RBI) recently announced plans to introduce a **'Lightweight' Payment and Settlement System (LPSS)** for emergencies which was proposed in **RBI's annual report for 2022-23**. The lightweight system aims to provide **resilience and continuity of payment and settlement systems** while ensuring efficiency during emergencies.

#### **RBI'S PLANNED LPSS**



LPSS is independent of conventional technologies and wired networks that underlie existing payment systems such as UPI, NEFT, and RTGS.

#### BACKGROUND

As a part of the 'Utkarsh 2.0' initiative, RBI will put in place a resilient framework for oversight of Centralized Payment Systems --NEFT and RTGS. It also seeks to upgrade the RTGS system, including improvements to the existing ones and the introduction of new functionalities.

#### ENHANCING PAYMENT SYSTEM RESILIENCE

LPSS for emergencies ensures resilience and continuity of payment and settlement systems during extreme and volatile situations.	<ul> <li>Conventional payment systems like UPI, NEFT, and RTGS are vulnerable to disruptions caused by natural calamities or war due to their dependence on complex wired networks and advanced IT infrastructure.</li> </ul>
<ul> <li>Disruptions in existing systems can affect liquidity pipeline and hamper essential payment services.</li> </ul>	<ul> <li>Lightweight system provides a portable and easily activated solution that can be operated remotely with minimal resources.</li> </ul>
<ul> <li>It serves as a backup option for critical transactions, maintaining stability and ensuring the availability of essential payment services.</li> </ul>	

#### **OPERATING PROCEDURE**

MINIMAL STAFF	• The system will have a bare minimum of trained staff who will handle payment and settlement operations securely and efficiently. They will also coordinate with government agencies, financial institutions, market participants, and service providers.
EMPHASIS ON NECESSARY TRANSACTIONS	<ul> <li>The system will process only those transactions that are crucial for maintaining the stability of the economy, such as government and market-related transactions. Retail or individual transactions that can be deferred or conducted through alternative modes will not be handled.</li> </ul>
SIMPLIFIED AUTHENTICATION AND VERIFICATION	<ul> <li>The system will employ a simplified mechanism to ensure the integrity and validity of transactions. It will also maintain transaction records for reconciliation and audit purposes.</li> </ul>

Advantages

#### **TO THE POINT CURRENT AFFAIRS 2024**

Ensures near-zero downtime of the  $\gamma$  payment and settlement system during emergencies

Facilitates uninterrupted functioning of essential payment services, including bulk payments, interbank payments, and provision of cash to participant institutions

Enhances public confidence in digital payments and financial market infrastructure

Acts as a deterrent against malicious attacks or sabotage attempts on existing payment systems

#### CHALLENGES

Requires careful planning and coordination among stakeholders for readiness and effectiveness. Requires testing and validation of functionality, security, and reliability before deployment. Requires regular training and capacity building of staff. Requires constant monitoring and evaluation of performance and impact.

#### 2. CITY INVESTMENTS TO INNOVATE, INTEGRATE & SUSTAIN 2.0 (CITIIS 2.0)

The Union Cabinet has approved the City Investments to Innovate, Integrate and Sustain 2.0 (CITIIS 2.0).

ABOUT



Objective: It aims to support competitively selected projects promoting circular economy with focus on integrated waste management at the city level, climate-oriented reform actions at the State level, and institutional strengthening and knowledge dissemination at the National level. Funding: The funding for CITIIS 2.0 would include a loan of Rs.1760 crore (EUR 200 million) from AFD and KfW (EUR 100 million each) and a technical assistance grant of Rs.106 cr. (EUR 12 million) from the EU.

Agencies involved: CITIIS 2.0 is a program conceived by the Ministry of Housing and Urban Affairs (MoHUA) in partnership with the French Development Agency (AFD), Kreditanstalt für Wiederaufbau (KfW), the European Union (EU), and National Institute of Urban Affairs (NIUA). Duration: The program will run for a period of four years, i.e., from 2023 till 2027.

Component 3: Interventions at all three levels; Centre, State and City to further climate governance in urban India through institutional strengthening



Component 1: Financial and technical support for developing projects focused on building climate resilience, adaptation and mitigation in up to 18 smart cities

Component 2: All States and UTs will be provided support to (a) set-up State climate centres (b) create State and city level Climate Data Observatories (c) facilitate climatedata driven planning, develop climate action plans and (d) build capacities of municipal functionaries

#### MALUKA IAS

#### **INTERNATIONAL RELATIONS**

#### **1. IRAN-TALIBAN WATER CONFLICT**

Iran and Afghanistan are locked in a **long-standing dispute** over the **sharing of water** from the **Helmand River**.

The Helmand River is a vital source of water for both sides, supporting agriculture, livelihoods and ecosystems in the region.

#### WHAT IS THE DISPUTE?

The Helmand River Treaty, signed in 1973 between Afghanistan and Iran to regulate water allocation, remains unratified and unimplemented. Iran accuses Afghanistan of violating water rights, citing only 4% of agreed-upon river water received last year. Afghanistan attributes reduced water flow to climatic factors and denies Iran's accusations. Iran is particularly concerned about Afghanistan's construction of dams and irrigation systems along the Helmand River.





#### **HELMAND RIVER**

- The Helmand is **Afghanistan's longest river**. It **originates** near **Kabul** in the **western Hindu Kush Mountain** range and flows in a southwesterly direction through desert areas for a total of about 1,150 kilometers before **emptying into Lake Hamun**, which straddles the **Afghanistan-Iran border**.
- Lake Hamun is the largest freshwater lake in Iran.lt used to be one of the world's largest wetlands fed by Helmand.
- It is **separated** from the watershed of the Kabul River by the **Unai Pass.**

#### **IRAN -TALIBAN TIES-**

Iran and Afghanistan share a **950-kilometer land border**. Both countries have **no major territorial disputes**.

Iran had cultivated good ties with the Taliban before the Islamic fundamentalist group captured Kabul in August 2021 as US and NATO troops were in the final weeks of their pullout from Afghanistan.

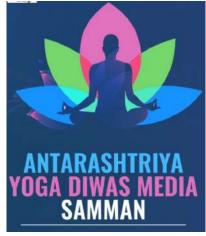
Source: IE

#### 2. ANTARASHTRIYA YOGA DIWAS MEDIA SAMMAN.

The Ministry of Information and Broadcasting(I&B) has announced the second edition of Antarashtriya Yoga Diwas Media Samman.

#### ABOUT ANTARASHTRIYA YOGA DIWAS MEDIA SAMMAN

The Ministry of I&B introduced the Antarashtriya Yoga Diwas Media Samman (AYDMS) in 2019 to recognize the media's positive role in promoting Yoga globally. The inaugural awards were presented in 2020, and the Ministry plans to revive the second edition in 2023. Thirty-three awards will be distributed across Print, Television, and Radio categories in twenty-two Indian Ianguages and English. An independent Jury will recommend the awardees, who will receive a special media/plaque/trophy along with a citation.



#### TO THE POINT CURRENT AFFAIRS 2024

#### DO YOU KNOW?

The International Day of Yoga has been celebrated annually on 21 June since 2015. The idea of the International Day of Yoga was first proposed by the Prime Minister of India, Shri Narendra Modi, during his address at the United Nations General Assembly (UNGA), on 27 September 2014.

Source: News on air

#### 3. L-20 SUMMIT (G20 ENGAGEMENT GROUPS)

The L-20 summit held in **Patna**, **Bihar** from **June 2023**. The topics of '**Universal Social Security**' and '**Women and Future of Work**' was discussed.

#### **ENGAGEMENT GROUPS UNDER G20**

Engagement Groups, comprising non-government participants from each G20 member, provide recommendations to the G20 Leaders and contribute towards the policy-making process.

B20 is the <b>official G20 dialogue forum</b> representing the <b>global business</b> <b>community</b> . Established in <b>2010</b> . <b>Confederation of Indian Industry (CII)</b> has been designated as the Business 20 (B20) <b>Secretariat</b> for <b>India's G20 Presidency</b> .			
It was launched in 2013 to engage with Civil Society Organizations (CSOs).			
L20 Summit first took place formally during the French Presidency in 2011. L20 convenes trade union leaders from G20 countries.			
P20 Engagement Group, started during Canada's Presidency in 2010, is led by Speakers from Parliaments of G20 countries.			
S20 Engagement Group, comprising the <b>national science academies</b> of the G20 countries, was <b>initiated</b> during <b>Germany's Presidency in 2017.</b>			
SAI20 is an Engagement Group <b>introduced</b> by the <b>Indonesian Presidency in</b> 2022. It is a forum to <b>discuss</b> the <b>important role</b> played <b>by SAIs globally in</b> ensuring transparency			
Startup 20 Engagement Group has been <b>initiated under G20 India presidency of</b> <b>2023</b> which aspires to create a <b>global</b> narrative for <b>supporting startups</b> .			
T20 as an official G20 Engagement Group, was <b>initiated</b> during the <b>Mexican</b> <b>Presidency in 2012.</b> It serves as an "idea bank" for the G20 by bringing together think tanks and high-level experts to discuss <b>relevant international socio-</b> <b>economic issues</b> .			
Urban 20 or U20 is a city diplomacy initiative, comprising cities from G20 countries. The U20 was instituted in 2017 under the leadership of Mayors of Buenos Aires (Argentina) and Paris C40(Cities Climate Leadership Group is a group of 96 cities) and UCLG (United Cities and Local Governments) are the conveners of U20 since its inception. Ahmedabad is the Chair for the 6th edition of U20. The National Institute of Urban Affairs will work with the city of Ahmedabad as the Technical Secretariat for U20.			
<ul> <li>Women20 (W20) was launched in 2015 during the Turkish Presidency.</li> <li>Its aim is to implement the "25×25" commitment adopted at Brisbane Summit in 2014, aimed at reducing the gender gap in labour force participation by 25% by the year 2025.</li> <li>W20 focuses on 'gender inclusive economic growth', and the following five are the priority areas for W20: Grassroots leadership, Entrepreneurship, Bridging the Gender Digital Divide, Education &amp; Skill Development and Climate Change.</li> </ul>			
Y20 with its <b>first</b> Y20 conference held in <b>2010</b> , provides a platform that allows youth to <b>express their vision</b> on the G20 priorities.			

Source: G20

#### POLITY

#### **1. NATIONAL COMMISSION FOR SCHEDULED CASTES**

The National Commission for Scheduled Castes (NCSC) has recently issued a notice to Zomato, regarding an advertisement that was deemed "inhuman" and casteist.

#### NATIONAL COMMISSION FOR SCHEDULED CASTES

The NCSC is a **constitutional body** established with a view to provide safeguards against the **exploitation of Scheduled Castes** and to promote and protect their **social**, **educational**, **economic and cultural interests**.

#### **HISTORY**

Special Officer	Initially, the constitution provided for the appointment of a <b>Special Officer</b> <b>under Article 338</b> . The special officer was designated as the <b>Commissioner</b> <b>for Scheduled Castes and Scheduled Tribes</b> .
65th Amendment Act, 1990	It amended Article 338 of the Constitution and replaced the one-member system with a multi-member National Commission for Scheduled Castes (SC) and Scheduled Tribes (ST).
89th Amendment Act, 2003	Article 338 was amended, and the erstwhile National Commission for SC and ST was replaced by two separate Commissions from the year 2004 which were: (a) National Commission for Scheduled Castes (NCSC) and (b) National Commission for Scheduled Tribes (NCST)

#### COMPOSITION

- The NCSC comprises a Chairperson, a Vice-Chairperson, and three additional Members.
- These positions are filled through the President's appointment, indicated by a warrant under his hand and seal.
- Their conditions of service and tenure of office are also determined by the President.

#### **FUNCTIONS**

<ul> <li>To investigate and monitor all matters</li></ul>	<ul> <li>To participate and advise on the planning</li></ul>
relating to the constitutional and other legal	process of socioeconomic development of
safeguards for the SCs and to evaluate their	the SCs and to evaluate the progress of their
working	development under the Union or a state
<ul> <li>To inquire into specific complaints with</li></ul>	<ul> <li>To present to the President, annually and at</li></ul>
respect to the deprivation of rights and	such other times as it may deem fit, reports
safeguards of the SCs	upon the working of those safeguards
To make recommendations as to the measures that should be taken by the Union or a state for the effective implementation of those safeguards and other measures for the protection, welfare, and socio-economic development of the SCs	<ul> <li>Till 2018, the commission was also required to discharge similar functions with regard to the other backward classes (OBCs). It was relieved from this responsibility by the 102nd Amendment Act, 2018.</li> </ul>

#### TO THE POINT CURRENT AFFAIRS 2024

#### 2. PRIME MINISTERS MUSEUM AND LIBRARY

Recently, the name of the Nehru Memorial Museum & Library (NMML) situated in the Teen Murti Complex was changed to Prime Ministers Museum and Library society.

#### THE BUILDING

Teen Murti House	Built in 1929-30 as part of Edwin Lutyens's imperial capital, then known as Flagstaff House, was the official residence of the Commander-in-Chief of the British armed forces in India.	
Nehru Residence	In August 1948, it became the official residence of India's first Prime Minister, Jawaharlal Nehru, who lived there for 16 years until his death on May 27, 1964.	
Nehru Memorial Museum	On Nehru's 75th birth anniversary on November 14, 1964, President S Radhakrishnan dedicated the Teen Murti House to the nation and inaugurated the Two years later, the NMML Society was set up to manage the institution and has remained in charge since then.	

#### THE PRADHANMANTRI SANGRAHALAYA

- In 2016, The Prime Minister mooted the idea of setting up a museum dedicated to all Prime Ministers of India on the premises of Nehru Museum.
- It was inaugurated by the PM in April, 2022, to create awareness about all 14 prime ministers of the country with ample space for future leaders as well.
- Also, the Nehru Museum has been integrated with the new building and designated as Block I of the Prime Ministers Museum.



#### Source: IE

#### **3. PROTECTING THE HONOUR OF NATIONAL ANTHEM**

Recently the Executive Magistrate in Srinagar sent 11 men to jail after detaining them for allegedly not rising for the National Anthem at an event where J&K Lt Governor was present.

- The order noted that "there is every likelihood that they may commit breach of peace and disturb public tranquility if released".
- They were "bound down" for good behavior under sections 107/151 of CrPC. The accused is bound by surety or personal guarantee to appear before the court.



Note: In legal terms, to be "bound down" means to be required to **appear before the investigating officer** or the court on a given date.

#### **EXECUTIVE MAGISTRATE**

The CrPC classifies magistrates into 2 types - **Executive Magistrates and Judicial Magistrates**. Section **3(4)** of the CrPC enforces on **good relations** between the two.

#### GOVERNANCE

#### 1. Film Certification in India

**Union Information & Broadcasting Minister** has raised concerns to the Central Board of Film Certification (CBFC) over their nod to the **Hollywood film Oppenheimer**.

#### What is the CBFC?

ABOUT	CBFC is a statutory body tasked with regulating the public exhibition of films
	under the provisions of the Cinematograph Act, 1952. Films can be shown in
	India only after they have been certified by the Board.
PARENT	Ministry of Information and Broadcasting (I&B)
MINISTRY	
HEADQUARTERS	Mumbai
GOVERNANCE	The Board consists of <b>Board members and a Chairperson</b> (all of whom are
	appointed by the Central Government). The CEO, under the chairperson, is in
	charge of the administrative functioning.
REGIONAL	CBFC has nine regional offices (ROs). In the examination of films, the ROs are
OFFICES	assisted by Advisory Panels that can have multiple members.
	These members of the Advisory panel are nominated by the Central
	Government for two years. While the board members are usually film and TV
	professionals, members of the advisory panel are often from outside the industry.

#### **PROCESS OF FILM CERTIFICATION**

- After receiving all of the film's materials, requisite fees and other matters required under the rules, the regional officer forms an Examining Committee to view the film.
- After the film has been previewed, the CBFC has to ensure that each member gives a report in writing about his/her recommendations about the modifications and the classification recommended to the film.
- The Certification process is in accordance with The Cinematograph Act, 1952, The Cinematograph (certification) Rules, 1983, and the guidelines issued by the Central government under section 5 (B) of The Cinematograph Act, 1952.
- Section 5(B) states that "a film shall not be certified if any part of it is against the interest of the sovereignty and integrity of India, the security of the State, friendly relations with foreign States, public order, decency or involves defamation or contempt of court or is likely to incite commission of any offence".
- The **report** is then given to the **Chairperson** who will ask the **regional officer to initiate further procedures**.

#### TO THE POINT CURRENT AFFAIRS 2024

#### CERTIFICATES THAT CAN BE ISSUED TO INDIAN FILMS

- Certification is decided by the Regional Officer based on reports by Examining Committee members in unanimity or majority. In case of a divided opinion, the case rests with the chairperson.
- These certifications include unrestricted public exhibition (U), parental guidance for children below age 12 (U/A), adult (A), or viewing by specialized groups (S).
- If the applicant is unhappy with the certification or the list of changes, he or she can apply to the Revising Committee. The Committee cannot have any of the members who were on the earlier committee; and it also has to have a Board member (or more) on it, mandatorily.
- If there is still contention the last point of appeal is the Film Certification Appellate Tribunal, an independent body.



Source:IE

#### 2. RAJMARGYATRA

Recently 'Rajmargyatra', a **unified mobile application** was launched to provide **comprehensive information for national highway users.** 

#### ABOUT

It aims to create a **seamless**, **user-friendly experience** for highway users, fostering a **safer and more enjoyable** journey on Indian National Highways.

• The app was launched by the National Highways Authority of India (NHAI).



#### KEY FEATURES OF 'RAJMARGYATRA' APP

COMPREHENSIVE	It provides real-time weather conditions, timely broadcast notifications,
HIGHWAY	and access to details about nearby toll plazas, petrol pumps, hospitals,
INFORMATION	hotels, and other essential services that ensure a seamless and safe
	journey on National Highways.
HASSLE-FREE	The app comes with an inbuilt complaint redressal and escalation
COMPLAINT	mechanism. Users can easily report highway-related issues, attaching
REDRESSAL	geo-tagged videos or photos for better clarity. The registered
	complaints will be handled in a time-bound manner, with system-
	generated escalations to higher authorities in case of any delays.
SEAMLESS	'Rajmargyatra' integrates its services with various bank portals, making it
FASTAG	convenient for users to recharge their FASTags, avail monthly passes,
SERVICES	and access other FASTag-related banking services – all within a single
	platform.
	Over-speeding notifications and voice-assistance to encourage
	responsible and safe driving behavior
Source: PIB	·

#### MALUKA IAS

#### HEALTH

#### 1. PRADHAN MANTRI BHARTIYA JANAUSHADHI PARIYOJANA (PMBJP)

The Janaushadhi scheme has helped citizens to save around Rs 20,000 cr on their medicine bills in the last 9 years.

#### ABOUT PRADHAN MANTRI BHARTIYA JANAUSHADHI PARIYOJANA (PMBJP)



- It is a campaign launched in November 2008 by the Department of Pharmaceuticals in association with Central Pharma Public Sector Undertakings, to provide quality medicines at affordable prices to the masses through dedicated outlets known as Pradhan Mantri Bhartiya Janaushadhi Kendras (PMBJK).
- The Government revamped the 'Janaushadhi Scheme' in September 2015 as 'Pradhan Mantri Janaushadhi Yojana' (PMJAY).
- To give further impetus to the scheme, it was again renamed as Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP).

The drugs sold at the Kendras are 50% to 90% cheaper than their branded counterparts

- Features

PMBJK provides generic medicines at a much lesser price. The potency of these medicines is the same as that of expensive branded medicines available in the open market

The Janaushadhi scheme requires that at least one Janaushadhi Store be set up in each District of the country

#### AIM

Ensure access to qu all the section of the for the poor and the	population especially	<ul> <li>Create awareness about generic medicines through education and publicity to counter the perception that quality is synonymous with high price.</li> </ul>
Generate employme individual entreprene PMBJP Kendras.		<ul> <li>Extend coverage of quality generic medicines so as to reduce the out of pocket</li> <li>expenditure on medicines and thereby redefine the unit cost of treatment per person.</li> </ul>

#### **EVOLUTION**

•	In the last nine years, the number of Janaushadhi Kendras has increased by 100 times and the sales have increased more than 150 times.	•	It has helped citizens to save around <b>20,000</b> <b>crore rupees on their medicine bills</b> in last nine years.	
•	Over <b>9,400 Janaushadhi Kendras</b> are functional across the country.	•	Medicines to treat gastric issues, diabetes, cardiovascular ailments, and pain have seen the highest sales at the Jan Aushadhi Kendras, under the PMBJP scheme.	

**FUTURE PROSPECTS:** The government has set a target to **increase the number** of Janaushadhi Kendras to **10,000** by the end of this year.

#### Source: TH

#### **TO THE POINT CURRENT AFFAIRS 2024**

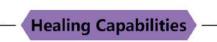
#### 2. FIRST INDIGENOUSLY DEVELOPED ANIMAL-DERIVED BIOMEDICAL DEVICE

Recently, Indian Drugs Controller approved the first indigenously developed animal-derived **Class D Biomedical Device, Cholederm** that can **rapidly heal skin wounds** at low-cost with minimum scarring. As per the Medical Devices Rules, 2017, medical devices are classified into four classes based on the risk level: **Class A (low risk), Class B (low moderate risk), Class C (moderate high risk); Class D (high risk).** 

#### MAJOR HIGHLIGHTS OF THE DEVELOPMENT

	The Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), an autonomous institution under the Department of Science and Technology (DST), developed the tissue engineering scaffold.	The institution is India's pioneer in developing CDSCO-compliant Class D medical devices and employs innovative technology to create tissue engineering scaffolds from mammalian organs.
1	The concept of using animal-derived materials as advanced wound care products is <b>not new</b> .	However, <b>indigenous technology</b> was so far not available for <b>fabricating quality products</b> that satisfy the requirements of the <b>Drugs</b> <b>Controller General</b> .

It showed that graft-assisted healing was regulated by anti-inflammatory M2 type of macrophages, which helped modulate or mitigate scarring reactions in different tissues



The tissue engineering scaffold, (Cholederm), showed the ability to heal various types of skin wounds, including burn and diabetic wounds, in rat, rabbit, or dog models faster than existing products in the market, while minimizing scarring

#### **COST REDUCTION AND MARKET POTENTIAL**

- The introduction of Cholederm to the Indian market is expected to reduce treatment costs from Rs 10,000/- to Rs 2,000/-, making it more affordable.
- Additionally, the technology provides a **competitive advantage in the international market** and creates an **income-generating opportunity**.

#### **FUTURE DEVELOPMENTS**

The research team is currently developing injectable gel formulations of the scaffold for easier application in treating cardiac injuries, aiming to revolutionize the management of patients suffering from myocardial infarction.

#### Note:

- Medical devices are regulated as drugs under the Drugs and Cosmetics Act, 1940.
- CDSCO is the national regulating authority for medical devices and pharmaceuticals while NPPA is empowered by the Drugs (Price Control) Order, 2013, to control the prices of drugs and medical devices.

#### **CDSCO**

- The CDSCO is the **Central Drug Authority** for discharging functions assigned to the Central Government under the **Drugs and Cosmetics Act**, **1940**.
- The CDSCO under Directorate General of Health Services, Ministry of Health & Family Welfare, Gol is the National Regulatory Authority (NRA) of India. Its headquarter is in New Delhi.

North Korea in the past decade has

had an active space program that is

Starting in 1998, North Korea

closely related to its missile program

successfully orbited its first satellite

in 2012 after three failed attempts.

#### DEFENCE AND INTERNAL SECURITY

#### 1. NORTH KOREAN SPY SATELLITES

A North Korean military **reconnaissance satellite Malligyong-1** was launched through a new type of rocket named **Chollima-1**.



#### **DO YOU KNOW?**

- The recent flight was the 16th satellite launch by North Korea.
- It was done through the Chollima-1, a new space launcher with an engine similar to North Korea's dualnozzle liquid-fuel machine used in Hwasong-15 ICBM.

#### **MORE IN NEWS**

- The satellite is said to have flown for about 10 minutes before crashing into the Yellow Sea.
- The U.S., Japan, and South Korea expressed 'strong condemnation' to the launch.

The launch vehicle used was Unha-3, a likely variant of Taepodong-2 ICBM

The Unha-type launch vehicle was also used in the 2016 launch of Pyongyang's Earth Observation satellite

#### **OBJECTIVES OF NORTH KOREA**

The North Korean spy satellites are expected to play a crucial role in providing advanced surveillance technology that covers a large portion of the region, to improve the ability to strike targets during conflict.

N. Korea's Space Program

#### OTHER RELATED DEVELOPMENTS

- Earlier, the U.S. announced that it would be activating U.S. Space Forces Korea.
- This system would provide South Korea with advanced capabilities of missile warning and satellite communications throughout the Korean peninsula and its proximate areas.
- South Korea successfully launched its Nuri rocket which is designed to assist Seoul's efforts to develop a space-based surveillance system.

#### REPERCUSSIONS

- The security anxiety in East Asia in response to the North Korean satellite launch reveals a sense of urgency among the regional powers.
- While the launch is a breach of the UN Security Council resolutions, it is unlikely to attract additional economic sanctions.
- This displays the weak effectiveness of sanctions imposed on North Korea.

#### **INDIAN SCENARIO**

EMISAT	
	km height by PSLV-C45 in 2019.
	It has been developed under DRDO's Project Kautilya which aims to boost India's space
	surveillance capacity.
	The project is named after the ancient Indian economist who emphasized the importance of
	spying for a king to protect his kingdom.
	It detects electronic signals on the ground, especially hidden enemy radars.
	This capacity will help India in surgical warfare which is supposed to have become a

MALU	KAIAS	TO THE POINT CURRENT AFFAIRS 2024
	permanent option for India to check <b>Pakistan</b> - surgical strike.	sponsored terrorism after the Balakot
RISAT- 2	It is a <b>Radar Imaging Satellite</b> with the <b>all-we</b> This Satellite enhances ISRO's capability for <b>D</b> RISAT-2 was launched on 20 April 2009 by the It was a radar-imaging satellite that was India's the country's borders as part of <b>anti-infiltratio</b> It possessed <b>day-night</b> as well as <b>all-weather</b>	Disaster Management applications. PSLV-C12 launch vehicle. First "eye in the sky" to keep surveillance on n and anti-terrorist operations.

#### Source: TH

#### 2. SIPRI ANNUAL REPORT 2023

**Stockholm International Peace Research Institute** (SIPRI) has released its annual assessment of the state of **armaments**, **disarmament and international security** of 2023.

SIPRI is an independent international

institute dedicated to research into conflict, armaments, arms control Funding: Founded on a decision by and disarmament. It is based in the Swedish Parliament, it relies Stockholm heavily on an annual grant from the SIPRI Swedish Government and actively pursues additional funding from It was established in 1966, SIPRI various organizations to conduct its provides data, analysis and research recommendations, based on open sources, to policymakers, researchers, media and the interested public

#### **KEY HIGHLIGHTS OF THE REPORT**

#### NUCLEAR ARSENALS

 The nine nuclear-armed states (the USA, Russia, India, China, UK, France, Pakistan, North Korea and Israel) are actively modernizing their arsenals. Russia and the USA collectively hold nearly 90% of the world's nuclear weapons.

CHINA	China's nuclear arsenal rose from <b>350 to 410</b> warheads in a year and is projected to expand further, possibly matching the <b>USA or Russia</b> in <b>intercontinental ballistic missiles</b> (ICBMs) by the decade's end.
INDIA AND PAKISTAN	India and Pakistan are expanding their nuclear arsenals, introducing and developing new delivery systems in 2022. India, with a focus on Pakistan as its <b>main nuclear deterrent</b> , is increasingly emphasizing <b>longer-range weapons</b> , some capable of reaching targets across China.
N. KOREA	In 2022, North Korea <b>refrained from nuclear test explosions</b> but conducted over <b>90 missile tests</b> , including new ICBMs that may have nuclear warhead capabilities.

#### MALUKA IAS

#### **ART AND CULTURE**

#### 1. GITA PRESS AWARDED GANDHI PEACE PRIZE

The Gandhi Peace Prize for the **year 2021** is being conferred on Gita Press, **Gorakhpur by PM Modi-led jury**.

#### ABOUT

Gita Press is one of the **world's largest publishers** of **Bhagavad Gita, the Ramayana and the Upanishads**, having published 41.7 crore books in 14 **languages**, including 16.21 crore Bhagavad Gita. It **completes 100 years of its establishment in 2023.** 

• The institution has **never relied on** advertisement in its publications, for revenue generation.

PAST AWARDEES: Former President of South Africa Nelson Mandela, social worker Baba Amte, Archbishop Desmond Tutu of South Africa, environmentalist Chandi Prasad Bhatt, Sultan Qaboos Bin Said Al Said, Oman and Bangabandhu Sheikh Mujibur Rahman of Bangladesh (2020).

 Also include organizations such as ISRO, Ramakrishna Mission, Grameen Bank of Bangladesh, Vivekananda Kendra, Kanyakumari, Akshaya Patra, Bengaluru, Ekal Abhiyan Trust, India and Sulabh International, New Delhi.



#### **GANDHI PEACE PRIZE**

INTITUTION	It is an <b>annual award</b> instituted by Government of India in <b>1995</b> , on the				
	occasion of 125th Birth Anniversary of Mahatma Gandhi as a tribute to the				
	ideals espoused by Mahatma Gandhi				
ELIGIBILITY	This is an annual award given to individuals and institutions for their				
	contributions towards social, economic and political transformation through				
	non-violence and other Gandhian methods. The award is open to all persons				
	egardless of nationality, race, language, caste, creed or gender.				
REWARDS	The award carries an amount of <b>Rs. 1 crore</b> , a citation, a plaque and an				
	exquisite traditional handicraft/handloom item.				
SELECTION	The Jury chaired by <b>Prime Minister</b> and <b>comprises two ex-officio members</b> ,				
COMMITTE	namely the Chief Justice of India and Leader of the single largest Opposition				
	Party in Lok Sabha. Two eminent members are also part of the Jury, Speaker				
	of the Lok Sabha, and Founder of Sulabh International Social Service				
	Organisation.				

Source: TH

#### 2. JANAKPUR AND JANAKI

Recently released movie **Adipurush** has led to a **controversy in Nepal** over the **dialogue** that says "Janaki is a daughter of India".

#### MALUKA IAS

#### JANAKPUR

- It is the **capital** of Nepal's **Madhesh province** and is located about 225 km off Kathmandu.
- Across the border from India, Janakpur is about 23 km away, and the last town on the Indian side is Jainagar, in Bihar's Madhubani district.
- The city is said to be **Janakpurdham** the ancient **capital** of the **Videha dynasty** that ruled the **Mithila region.**

#### JANAKI TEMPLE

- The temple is **located in Janakpur** and was **built in 1898**.
- The inner sanctum of the temple houses a flower-covered statue of Sita, said to have been found in the Sarayu near Ayodhya.
- Statues of Lord Ram, and his brothers Lakshman, Bharat and Shatrughan stand next to Janaki statue.
- The temple is a destination under the **Ramayana Circuit**.
- Adjacent to the Janaki temple is the Ram-Sita
   Vivaha temple, which marks the event of
   Ram's marriage to Sita.

#### As per the Ramayana, Sita also known as Janaki is the daughter of King Janaka of the Videha dynasty.

JANAKI

 She was married to Ram, the prince of Ayodhya and owing to its connection with the Ramayana, Janakpur has been an important pilgrimage site for Hindus.



#### **RAMAYANA CIRCUIT**

- Ramayana Circuit is one of the **fifteen thematic circuits** identified for development under the **Swadesh Darshan scheme of the Ministry of Tourism.**
- India inaugurated a bus service in 2018, between Janakpur and Ayodhya (where Lord Ram was born), emphasizing the mythological connection between the two countries.

Source:IE

#### 3. KHARCHI PUJA

Kharchi Puja, also called the **Festival of 14 Gods**, is observed on the **eighth day of the new moon in July or August every year.** 

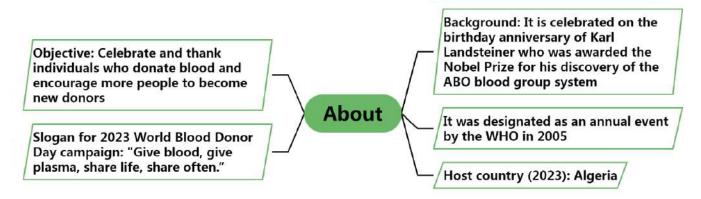
#### ABOUT KHARCHI PUJA

•	The word 'Kharchi' is derived from <b>two</b> <b>Tripuri words</b> – ' <b>khar</b> ' or kharta meaning sin and ' <b>chi'</b> or si meaning <b>cleaning</b> .	•	Kharchi Puja is a festival in <b>Tripura</b> , that concentrates on the worship of <b>Chaturdasa</b> <b>Devata,</b> the <b>ancestral deity</b> of the Tripuri people.
•	It is devoted to the <b>deity</b> of the <b>royal</b> <b>dynasty</b> , <b>Tripura Sundari</b> , also known as <b>Kharchi or Kharcha Baba.</b>	•	This festival takes place <b>15 days after Ambu</b> <b>bachi or Ambu pechi</b> . Ambu pechi symbolises the <b>menstruation of the Mother Goddess</b> or <b>Earth Mother</b> as per Tripuri folklore.

#### **SOCIAL JUSTICE**

#### 1. World Blood Donor Day

Every year June 14 is observed as World Blood Donor Day.



#### **COMPOSITION OF BLOOD**

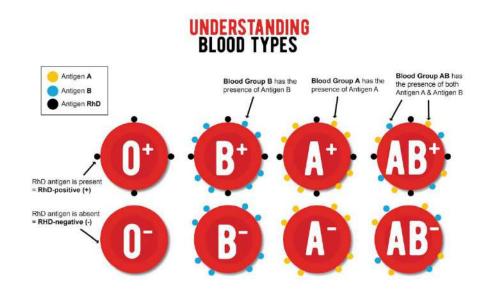
Blood is a specialized body fluid which has four main components:

PLASMA	<ul> <li>It is the liquid component of the blood and a mixture of water, sugar, fat, protein and salts.</li> <li>The main job of the plasma is to transport blood cells throughout the body along with nutrients, waste products, antibodies, clotting proteins, chemical messengers such as hormones, and proteins that help maintain the body's fluid balance.</li> </ul>
RBC	<ul> <li>These are the most abundant cells in the blood.</li> <li>Blood appears red because of the large number of red blood cells</li> <li>Red cells contain a special protein called haemoglobin, which helps carry oxygen from the lungs to the rest of the body and then returns carbon dioxide from the body to the lungs so it can be exhaled.</li> <li>Production of red blood cells is controlled by erythropoietin, a hormone produced primarily by the kidneys.</li> </ul>
WBC	<ul> <li>White blood cells protect the body from infection and account for about 1 percent of human blood.</li> </ul>
PLATELETS	<ul> <li>Platelets are small, colourless cell fragments in our blood that help the blood clotting process (or coagulation) by gathering at the site of an injury.</li> <li>A normal platelet count ranges from 150,000 to 450,000 platelets per microliter of blood</li> </ul>

<b>Composition of Blood</b>	TYPES OF BLOOD GROUPS
plasma (55%) white blood cells & platelets (4%)	<ul> <li>There are 4 main blood groups (types of blood) – A, B, AB and O.</li> <li>The blood group is identified by antibodies and antigens in the blood.</li> <li>Antibodies are proteins found in plasma. They're part of the body's natural defences. They recognize foreign substances, such as germs, and alert the immune system, which destroys them.</li> </ul>
red blood cells (41%)	Antigens are protein molecules found on the surface of red blood cells.

#### **TO THE POINT CURRENT AFFAIRS 2024**

The ABO System: There are 4 main blood groups defined by the ABO system.



Blood Group A	It has A antigens with anti-B antibodies.		
Blood Group B	It has <b>B antigens</b> with anti-A antibodies.		
Blood Group AB	It has both A and B antigens but no antibodies.		
Blood Group O	It has no antigens but both anti-A and anti-B antibodies.		
The RH System	RBCs sometimes have another antigen, a protein known as the <b>RhD antigen</b> . If this is present, the blood group is <b>RhD positive</b> . If it's absent, the blood group is <b>RhD negative</b> . The <b>golden blood type or Rh null blood group</b> contains no Rh antigens (proteins) in the RBCs. This is the <b>rarest blood group</b> in the world, with <b>less than 50 individuals</b> having this blood group. It was first seen in <b>Aboriginal Australians</b> .		

#### **UNIVERSAL BLOOD GROUPS:**

- Universal donor: O- blood, since no antigens are present and it has a negative Rh factor.
- Universal receiver: AB+ blood, since both A and B antigens are present and it has a positive Rh factor.

**BLOOD DONATION IN INDIA** 

- There are 3840 licensed blood banks (blood • centres) in the country. (till March 2022).
- The first voluntary blood donation initiative in • Inda started in 1942, during World War II and the first blood bank was established in Kolkata, West Bengal.

#### **MEASURES**

	ational Blood Transfusion Council ( <b>NBTC</b> ) and tate Blood Transfusion Council ( <b>SBTCs</b> ) were stablished with the intention of planning ationwide IEC ( <b>Information, Education and</b> <b>communication</b> ) campaigns.
a safe, ample supply of quality blood & it be components collected/procured from All voluntary unpaid regular blood donors in	response to the <b>HIV pandemic</b> , blood safety ecame an important component of National DS Control program with key objectives: <b>Modernization of blood banks</b> . Promotion of <b>voluntary blood donation</b> . Quality systems in <b>blood transfusion</b> <b>services (BTS)</b>

#### **TO THE POINT CURRENT AFFAIRS 2024**

#### **MISCELLANEOUS**

#### 1. SPECIAL OLYMPICS WORLD GAMES

India ended their Special Olympics World Games campaign with a whopping 202 medals.

#### ABOUT

India secured **76 gold**, **75 silver and 51 bronze medals** in the global multi-sport spectacle that celebrates **unity**, **diversity and special skills** among people with intellectual disabilities.

#### SPECIAL OLYMPICS WORLD GAMES



WORLD GAMES

**BERLIN 2023** 

training and athletic competition in a variety of Olympic-type sports for children and adults with intellectual disabilities, giving them continuing opportunities to develop physical fitness, demonstrate courage, experience joy and participate in a sharing of gifts, skills and friendship with their families, other Special Olympics athletes and the community. The Special Olympics strives to create a better world by fostering the

It was founded in 1968 with a mission to provide year-round sports

 The Special Olympics strives to create a better world by fostering the acceptance and inclusion of all people.

#### SIGNIFICANCE

 The Special Olympics mission remains as vital in fostering global unity by bringing together individuals of diverse abilities, nationalities, cultures, political beliefs, and religions through the unifying force of sports, enabling them to transcend prevailing prejudices.

#### DIFFERENCE BETWEEN PARALYMPIC GAMES AND SPECIAL OLYMPICS

•	The Special Olympics is solely for athletes with intellectual disabilities. The Paralympics focus more on physical disabilities.	•	The Olympics and Paralympics are about <b>elite</b> <b>competition and specialization</b> , and the athletes compete in Olympic and Paralympic Games only <b>once every four years</b> in their sport.
•	In contrast, the Special Olympics provides <b>sporting opportunities</b> throughout the year and <b>across the</b> <b>world</b> .	•	And in Special Olympics competitions, it's a fundamental rule that athletes in competitions are <b>matched up with others of the same competitive ability</b> .
•	The Paralympics are run by the International Paralympic Committee (IPC).	•	The Special Olympics are run by <b>Special Olympics</b> International (SOI).

#### SOURCE: TH

#### 2. SAFF CHAMPIONSHIP 2023

Recently, India marked a remarkable victory in the **South Asian Football Federation (SAFF) Championship 2023** held in **Bengaluru**, Karnataka, securing their ninth title by **defeating Kuwait** in a thrilling football match.

#### TO THE POINT CURRENT AFFAIRS 2024

#### SAFF CHAMPIONSHIP

- It is an internationally recognized football tournament that brings together teams from the South Asian subcontinent. Organized by the South Asian Football Federation (SAFF), it is one of the five sub-confederations under the Asian Football Confederation (AFC).
- SAFF was formed in 1997 by founding Member Associations from Bangladesh, India, Maldives, Nepal, Pakistan and SriLanka.
- The SAFF Secretariat currently operates from Dhaka, Bangladesh.

• Founding members: India, Pakistan, Sri Lanka, Bangladesh, Nepal, and Maldives.	•	Expansion: Bhutan joined in 2000, while Afghanistan became a member in 2005 before
Lanka, Dangiauesh, Nepai, anu Malulves.		moving to the Central Asian Football Association
		(CAFA) in 2015.

#### EVOLUTION

- The South Asian football tournament started as the South Asian Association for Regional Cooperation (SAARC) Gold Cup in 1993.
- Later renamed the South Asian Gold Cup in 1995 and became the SAFF Gold Cup from 1997 to 2005.
- Since 2008, it has been known as the SAFF Championship.

#### INDIA'S PERFORMANCE

- Men's SAFF Championship: India has been a powerhouse in the tournament, reaching the finals in all editions except 2003.
  - India has won **nine men's SAFF** Championship titles out of the **14 editions**.
- Women's SAFF Championship: India has enjoyed success in the SAFF Championship, winning the inaugural edition in 2010 and subsequently securing victories in 2012, 2014, 2016, and 2019.

#### Source: TH

#### 3. DURAND CUP

The Trophy tour of the 132nd edition of Durand Cup was flagged off by the Chief of the Army Staff General Manoj Pande and Air Chief Marshal VR Chaudhari.

#### **DURAND CUP**



Background	Durand Cup is <b>Asia's oldest and the world's third</b> <b>oldest</b> football tournament. It was started in <b>Shimla</b> in 1888 by <b>Sir Henry Mortimer Durand</b> (known for negotiating the Durand Line).			
Format	It is an <b>annual domestic football competition</b> in which top Indian football clubs from across the country participate.			
Governance	It is organized by the Indian Armed Forces in association with the All India Football Federation (AIFF)			
Trophies	The Durand Cup tournament is unique where in the winning team is awarded three trophies, i.e. the <b>Durand</b> <b>Cup</b> (a rolling trophy and the original prize), the <b>Shimla</b> <b>Trophy</b> (also a rolling trophy and first given by the residents of Shimla in 1904) and the <b>President's Cup</b> (for permanent keep, first presented by <b>Dr. Rajendra</b> <b>Prasad, India's first President</b> , in 1956).			

#### **DURAND LINE**

•	Location: The Durand Line forms a	Background: It was established in 1893 as the
	2,670-km long international land	international border between British India and the
	border between Afghanistan and	Emirate of Afghanistan by Mortimer Durand, a British

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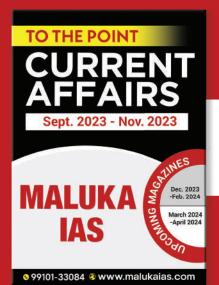
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8.	<ul> <li>5 Stage Answer Checking System for Daily Answer Writing + Test Series दैनिक उत्तर लेखन + परीक्षण श्रृंखला के लिए 5 चरण उत्तर जाँच प्रणाली</li> <li>Understand the Demand of Question (प्रश्न की मांग को समझें)</li> <li>Understanding the Dimension of Questions (प्रश्न के आयाम को समझना)</li> <li>How to Write Best Introduction, Body Part &amp; Conclusion (सबसे अच्छा परिचय, मुख्य भाग और निष्कर्ष कैसे लिखें)</li> <li>How to Make Flowchart in Answer (उत्तर में फ्लोचार्ट कैसे बनाये)</li> <li>How to use Reports and Facts in Answer (उत्तर में रिपोर्ट और तथ्यों का उपयोग कैसे करें)</li> </ul>	>	
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