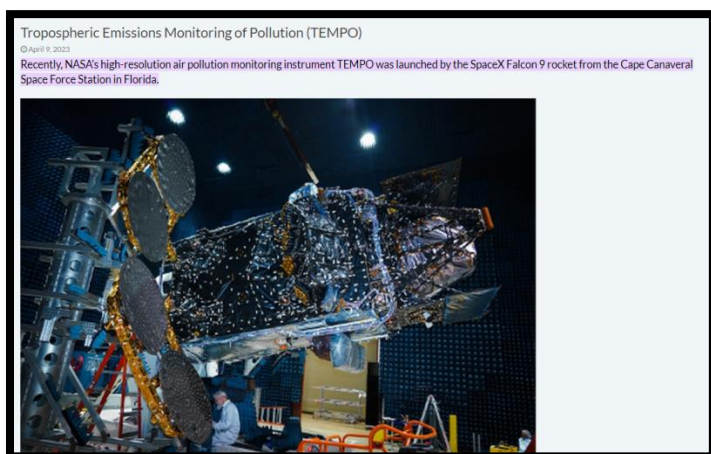


DAILY CURRENT AFFAIRS

[Top 10 Questions based on top 10 News]

1. NASA's high-resolution air quality monitoring instrument "TEMPO" launched



- NASA has successfully launched the Tropospheric Emission Monitoring of Pollution (TEMPO) instrument on 7 April 2023, a significant step forward in monitoring major air pollutants. TEMPO will be America's first space-based instrument.
- The instrument was launched from the Cape Canaveral Space Force Station in Florida on a SpaceX Falcon 9 rocket along with the Intelsat 40E satellite. Tempo commissioning activities will start in late May or early June.

- This instrument will allow scientists to observe air quality from space with an accuracy of only four square miles. The TEMPO mission aims to revolutionize the way we monitor air quality while helping to improve life on Earth.
- South Korea's Geostationary Environment Monitoring Spectrometer, the first instrument in the constellation, was launched into space in 2020 on the Korean Aerospace Research Institute GEO-KOMPSAT-2B satellite and is measuring pollution in Asia.
- ESA's (European Space Agency) Sentinel-4 satellite, which is due to launch in 2024, will make measurements over Europe and North Africa.
- ❑ **TEMPO**
- NASA Administrator Bill Nelson has said the TEMPO mission aims to improve life on Earth by monitoring the effects of everything from congested traffic to wildfires and pollution from volcanoes.
- The instrument is located in geostationary orbit, which means it

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can continuously monitor the same area of the Earth's surface. TEMPO will be able to measure air quality over North America hourly during the day.

- ✦ The instrument is designed to measure a number of major pollutants including ozone, nitrogen oxides, sulfur dioxide and formaldehyde.

2. Bharat Biotech honored at World Vaccine Congress 2023



- ✦ Bharat Biotech was honored with the 'Best Production/Process Development' award as a part of the Vaccine Industry Excellence (VIE) Awards at the World Vaccine Congress 2023, which took place in Washington, USA from 3rd to 6th April.

- ✦ Bharat Biotech was the only Indian company among the VIE award nominees in broad categories such as best clinical trial company, best clinical trial network, best central/specialty laboratory, best contract research organization and best production/process development etc.
- ✦ Bharat Biotech is known for the development of the world's first intranasal COVID-19 vaccine, INCOVAC, and its intramuscular vaccine, COVAXIN, which is used in India's public immunization program and has also been exported.

☐ World Vaccine Congress

- ✦ The World Vaccine Congress is an important international conference on vaccines, covering the vaccine value chain from basic research to commercial production. It brings together experts from all over the world to share their knowledge and expertise in vaccine development.

3. The Cabinet Committee on Security, chaired by Prime Minister Narendra Modi, released the 'Indian Space Policy 2023'



- The Indian Space Policy-2023 was approved by the Cabinet Committee on Security chaired by Prime Minister Narendra Modi. The policy seeks to institutionalize private sector participation in the space sector.
- The policy will enhance the participation of private industry to drive space economy opportunities for the country.
- The policy will help India increase its share in the global space economy from 2% to 10% in future

and India's satellite-manufacturing to US\$ 3.2 billion by the year 2025.

- The policy delineates the roles and responsibilities of the Indian Space Research Organization (ISRO), space sector PSU NewSpace India Limited (NSIL) and the Indian National Space Promotion and Authorization Center (IN-SPACe).

☐ **Main Points**

- The strategic activities related to the space sector will be carried out by NSIL, which will operate in a demand driven mode.
 - IN-SPACe will act as an interface between ISRO and non-governmental organizations. ISRO will focus its energy on new technologies, new systems and research and development.
 - The operational part of ISRO's missions will be transferred to NewSpace India Limited.
 - The policy will allow the private sector to participate in end-to-end space activities that include building satellites, rockets and launch vehicles, data collection and dissemination.
- #### ☐ **ISRO**
- ISRO is the sixth largest space agency in the world and with over 400 private space companies, India ranks fifth globally.

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- India has set up its "Defence Space Agency" (DSA), backed by the Defense Space Research Organization (DSRO), which has the mandate to develop weapons to "degrade, disrupt, destroy or deceive an adversary's space capability".
- To encourage and nurture space research among young minds, ISRO launched its student outreach program called "Samvad" at its Bengaluru facility.
- "Project Netra", an early warning system in space to detect debris and other threats to Indian satellites is a good step in this direction.

4. Advanced Gravitational-wave Observatory (LIGO) to be set up in Maharashtra



- The Union Cabinet approved the project to build an Advanced Gravitational-wave Detector (LIGO-Laser Interferometer Gravitational-Wave Observatory) on 174 acres of land in Maharashtra's Hingoli district at an estimated cost of Rs 2,600 crore. Its construction is expected to be completed by 2030.
- With its creation, "Indian S&T will make leaps in several cutting-edge frontiers of great national relevance, especially quantum-sensing and metrology," said Tarun Souradeep, director of the Raman Research Institute, Bengaluru.

- The observatory will be the third of its kind after Louisiana and Washington. LIGO-India is built by the U.S. Department of Atomic Energy and the Department of Science and Technology. This will be accompanied by an MoU with the National Science Foundation and several national and international research institutes.
- The US will provide key components for the lab worth \$80 million, which is Rs 560 crore.
- ❑ **LIGO Project**
- The Government of India had given in-principle approval to the project in February 2016. LIGO is the world's most powerful observatory that exploits the physical properties of light and space to detect and understand the origin of gravitational waves.
- This observatory will help in better understanding of celestial objects like neutron stars and black holes and in-depth study of gravitational waves.
- Each LIGO detector has two arms, each 4 kilometers long, consisting of 2-meter-wide steel vacuum tubes arranged in an "L" shape and anchored by a 10-foot-wide, 12-foot-tall concrete shelter. are covered, which protect the tubes from fire.

5. Indian Navy conducts Offshore Security Exercise 'Prasthan' in Mumbai



- The Indian Navy, other defence, state and civilian agencies conducted a coordinated exercise code-named "Prasthan". The exercise was conducted on 6 April 2023 at Offshore Development Area, Mumbai, Maharashtra.
- Offshore security exercise "Prasthan" is conducted every six months to control contingencies occurring in the Indian Navy oil production platforms. The present exercise was conducted at Drill Chhaya Platform approximately 30 NM South West of Mumbai Harbour.
- ❑ **Offshore Security Exercise "Prasthan"**

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- ✦ The exercise involved countering contingencies like oil platform fire, overboard, oil spill in the area, helicopter emergency, hazardous gas leak, assisting a disabled vessel in the offshore area and medical evacuation of platform crew.
- ✦ Several ships and helicopters from the Indian Navy, Indian Air Force, Indian Coast Guard, ONGC and Directorate General of Shipping were deployed for the exercise.
- ✦ It was also attended by personnel from Maharashtra Police, Customs, Fisheries Department, Mumbai Port Authority, JN Port Authority and other concerned state and central civic agencies.

6. Ministry of AYUSH celebrated 'World Homeopathy Day' on 10th April



- ✦ World Homeopathy Day is organized every year on 10 April. This year's theme is "One Health, One Family". Its objective is to promote homeopathic treatment among the people through practitioners.
- ✦ On this occasion, a conference is being organized by the Ministry of AYUSH in New Delhi based on the theme 'Homeoparivar- Sarvajan Swasthya, One Health, One Family'.
- ✦ During the conference, various sessions were organized on policy aspects, advances in homeopathy, research evidence and clinical experiences in homeopathy.

- Homeopathy is a holistic approach to treatment that involves using substances to stimulate the body's natural healing processes. The day aims to create awareness about the effectiveness of homeopathy in treating various health conditions.
- It has been used for centuries to treat ailments such as allergies, asthma, depression or anxiety. Homeopathy medicines are made from natural ingredients such as minerals, plants and animals.

❑ **World Homeopathy Day**

- World Homeopathy Day is observed every year on 10 April to commemorate the birth anniversary of the German physician Dr. Samuel Hahnemann, the founder of Homeopathy. This year is the 268th birth anniversary of Dr. Hahnemann.
- Dr. Samuel Hahnemann, the founder of homeopathy, was born on April 10, 1755 in Paris. While practicing, he discovered that in order to cure a patient's disease, ingredients that cause the symptoms of the disease must be administered.
- He wrote 'Similia Similibus Curentur' at the end of the 18th century. ', which means 'let like treat like'. Thus, homeopathy

works on the principle of "like cures like".

7. Five handicraft products of Madhya Pradesh got GI. Tag



- On April 2023, GI tag has been given to 5 handicraft products of Madhya Pradesh by the Union Ministry for Promotion of Industry and Internal Trade. Earlier, it has been announced to give GI tag to Sundarja mango of Rewa district, Gajak of Morena.
- These 5 products include Gond Painting of Dindori, Carpet of Gwalior, Batik Print of Ujjain, Stone Craft of Jabalpur Bhedaghat and Saree of Varasivni of Balaghat.
- This is the first time that so many products of the state have been given GI tag at once. With this, the number of GI-tagged products has increased to 19 in the state.
- ❑ **International Intellectual Property (IP) Index 2023**

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- ✦ India has been ranked 42nd among 55 major global economies in the International Intellectual Property (IP) Index 2023 released by the US Chambers of Commerce, which is topped by the US, followed by the United Kingdom and France.

❑ World Intellectual Property Organization

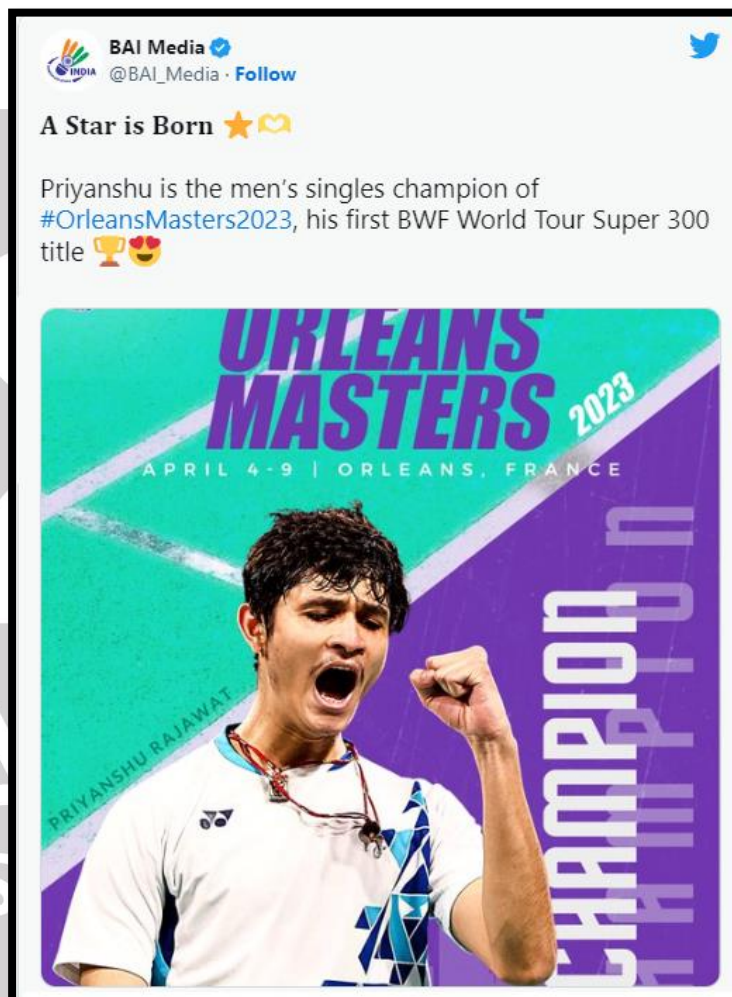
- ✦ It was formed in 1967 to encourage creative activities and promote intellectual property protection in the world. WIPO is headquartered in Geneva, Switzerland. World Intellectual Property Day is celebrated every year on 26 April.

❑ Types of Intellectual Property:

1. Copyright - the rights of authors of literary and artistic works (such as books and other writings, musical compositions, paintings, sculptures, computer programs and films) protected by copyright for a period of at least 50 years after the author's death is preserved.
2. Industrial Property - Protection of Distinctive Marks, in particular Trademarks and Geographical Indications:
3. Trademark
4. Geographical Indication
5. Industrial Designs and Trade Secrets - Other types of industrial property are protected primarily to

encourage innovation, creation of design and technology.

8. Priyanshu Rajawat won the 'Orleans Masters Badminton Tournament' for the first time-2023



- ✦ India's Priyanshu Rajawat has won the title of Orleans Masters Super 300 badminton tournament on 9th April 2023 in France. This is the first BWF Super 300 title for Rajawat. In this, the winner gets \$2,40,000 prize money.
- ✦ In the men's singles final, Priyanshu defeated World No. 49

Magnus Johansen of Denmark in three games 21-15, 19-21, 21-16 in one hour and eight minutes.

- Indian Rajawat, who won the Thomas Cup last year, reached the final of Super 300 Tour competition for the first time and was successful in winning the title.
- Priyanshu Rajawat has four BWF International Challenge/Series titles to his credit, while finishing runner-up in the 2022 Odisha Open, a BWF Super 100 event.
- Orleans Masters 2022 tournament was held from 29 March - 03 April 2022 in France. Mithun Manjunath of India was the runner-up.

9. Tamil Nadu government launches 'TN Reach' initiative



- The Tamil Nadu Industrial Development Corporation (TIDCO) has developed a system called Tamil Nadu Regional Aerial Connectivity Through Helicopters

(TN REACH), which will provide intercity and town connectivity using over 80 unserviceable helipads across the state.

- This will be used to leverage the National Civil Aviation Policy and Helicopter Policy of the Government of India. Tamil Nadu Industrial Corporation (TIDCO) will be the nodal agency to implement the scheme.
- It will create an institutional mechanism involving government agencies, helipads and helicopter operators. At present air connectivity is available only to five cities - Chennai, Coimbatore, Trichy, Madurai and Thoothukudi.
- According to Thangam Thennarasu, Industries Minister of Tamil Nadu, TN Reach will set up a network of air routes within a state that will facilitate people to travel between cities and towns using helicopters.
- Additionally, a robust helicopter service can prove particularly beneficial in emergency situations where time is of the essence.
- This mechanism will rely on two existing initiatives - Heli Disha, which is an administrative manual for helicopter operations, and Heli Seva, which is an online portal for providing landing clearance for helicopter operations.

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**10. 13th Olive Crown Awards
held in Mumbai**

- The 13th edition of the Olive Crown Awards was held in Mumbai, India, to appreciate individuals and corporate promoting sustainability or 'green advertising'.
- The award is presented by the International Advertising Association. The awards included 17 categories, including 'Green Agency of the Year' and 'Green Campaign of the Year'.
- ❑ **Winner**
- P.N. Mohan who restored seven lakes near Chennai won the prestigious 'Green Crusader of the Year' award.
- Kirloskar Limitless received Gold for 'A Minute for Nature' and 'Green Brand of the Year' for 'Corporate Crusader of the Year' and 'Powered by Nature'.
- Famous Innovations won 10 awards across all categories, wherein

Chirag Rural Development Foundation and People for Animals Wildlife Rescue and Conservation Center were awarded the Gold Award in the 'Green NGO of the Year' category.

- The communication designed by Ogilvy for The Hindu titled 'The Inconsiderate Planet' won Silver at the IAA Olive Crown Awards 2023. Livpure won Gold for 'Green Campaign of the Year' - 'Rally for River'.

❑ **International Advertising Association**

- In 1938, 12 exports were made by advertising executives at the Harvard Club in New York. The IAA's mission is to serve as a gateway for brands and marketers seeking customers and growth across borders and to guide our members through the changes occurring in our industry.

- [1] Recently for what purpose has NASA launched the "TEMPO"?
(a) Monitoring of space debris
(b) Monitoring of air pollutants
(c) Prediction of cyclones
(d) Spying
- [2] Who has recently been honored with the 'Vaccine Industry Excellence' award at the World Vaccine Congress 2023?
(a) Bharat Biotech Company
(b) Sinovac Company
(c) Novavax Company
(d) Moderna Company
- [3] Who was the chairman of the Cabinet Committee on Security that released the Indian Space Policy 2023?
(a) Amit Shah
(b) Jitendra Singh
(c) Narendra Modi
(d) Rajnath Singh
- [4] Recently where has the Government of India announced to set up the 'Advanced Gravitational-wave Observatory' (LIGO)?
(a) Himachal Pradesh
(b) Gujarat
(c) Maharashtra
(d) Goa
- [5] Where has the Indian Navy recently conducted the offshore security exercise 'Prasthan'?
(a) Mumbai
(b) Kolkata
(c) Visakhapatnam
(d) Panaji
- [6] When is the World Homeopathy Day celebrated annually across the world?
(a) 8th April (b) 9th April
(c) 10th April (d) 11th April
- [7] Which handicraft products of Madhya Pradesh have recently got G.I. tag provided?
(a) Gond painting of Dindori
(b) Carpet of Gwalior
(c) Batik print of Ujjain
(d) All of the above
- [8] Who is the winner of 'Orleans Masters Badminton Tournament'-2023 held in France recently?
(a) Priyanshu Rajawat
(b) Magnus Johansson
(c) Mithun Manjunath
(d) Nhat Nguyen
- [9] Where has the 'TN Reach' initiative been launched recently?
(a) Odisha (b) Karnataka
(c) Kerala (d) Tamil Nadu
- [10] Where has the 13th Olive Crown Awards been organized by the International Advertising Association recently?
(a) Surat
(b) Mumbai
(c) Panaji
(d) Kochi