



May - 06

TNPSC BITS

- The Arunachal Pradesh Chief Minister Pema Khandu recetnly inaugurated the revamped strategic bridge "Hangpan Dada" over River Subansiri at Daporijo in Upper Subansiri district in the state.
 - The reconstruction work was entrusted to the Border Road Organization (BRO) under Project ARUNANK.
- The Tirunelveli Municipality Corporation has created the State's first Social Distancing theatre.
- Pakistan batsman Umar Akmal was banned for 3 years by the Pakistan Cricket Board recently for not reporting corrupt approaches.

NATIONAL

Micro Irrigation

- In the financial year 2019-20, Tamilnadu (2,06,853.25 ha) is on top at the all-India level for micro-irrigation coverage.
- It is followed by Karnataka and Gujarat with 1,41,103.56 Ha and 1,08,322.00 Ha of coverage respectively.
- This has been achieved as part of implementation of the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).
- It is a programme aimed at promoting the "more crop per drop" concept by focussing on water-saving technologies.

INTERNATIONAL

R&D Statistics and Indicators 2019-20

- It is based on the national S&T survey 2018 brought out by the National Science and Technology Management Information (NSTMIS), Department of Science and Technology (DST).
- ✤ India's gross expenditure in R&D has tripled between 2008 & 2018.
- With the rise in research publication, the country is globally at the 3rd position.
- The two main contributors were Department of Science and Technology (63%) and Department of Biotechnology (14%).
- ✤ The first two ranks were occupied by USA and China.





- ◆ India is also 3rd in the number of Ph.D. in science & engineering.
- India's per capita R&D expenditure has increased to \$ 47.2 in 2017-18 from \$ 29.2 in 2007-08 on the basis of Purchasing Power Parity (PPP).
- ✤ India spent 0.7% of its GDP on R&D in 2017-18.
- ✤ Among the BRICS countries, it was Brazil 1.3%, Russian Federation 1.1%, China 2.1% and South Africa 0.8%.
- India is ranked at 9th position in terms of Resident Patent Filing activity in the world.
- According to WIPO, India's Patent Office stands at the 7th position among the top 10 Patent Filing Offices in the world.
- ♦ The women participation in the R&D field has increased from 13% to 24%.



The Most Popular Central bank

- RBI has the maximum number of Twitter followers across all central banks in the world with 7.45 lakh followers.
- The Reserve Bank of India (RBI) has beaten US Federal Reserve and European Central Bank on Twitter by emerging as the most popular central bank.
- ✤ Closely behind RBI is the Bank Indonesia.
- ✤ At the third spot is Banco de Mexico the apex bank of Mexico.

ECONOMY

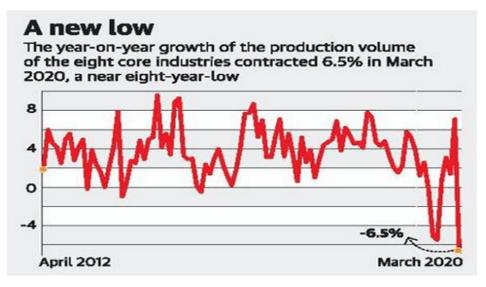
Core sectors

- ◆ The output of the core industries has reduced by 6.5% in the month of March.
- ✤ The Data was released by the Ministry of Commerce and Industry.





- ✤ This is the sharpest reduction since 2012.
- The core sectors of India include crude oil, steel, natural gas, refinery product, cement, fertilizer, electricity and coal.
- The eight crore industries have a weight of 40.27% in the Index of Industrial Production.
- The Index of Industrial Production (IIP) is published by the Central Statistical Organization.
- The IIP indicator measures broad sectors namely mining, electricity and manufacturing.
- \clubsuit The IIP is calculated with 2004-05 as the base year.



SCIENCE AND TECHNOLOGY

Fluid Simulation Code

- The Indian Scientists at the Indian Institute of Geomagnetism has developed fluid simulation code to study electric field structure in the magnetosphere of the Earth.
- The study will help to plan the future space missions.
- \clubsuit The sun is the major source that deposits plasma around the earth.
- ✤ It forces its plasma towards the earth through its solar wind.
- This creates interplanetary magnetic field that is carried by the solar magnetic field.
- The interaction of the earth's magnetic field and the interplanetary magnetic field creates magnetosphere of the earth.





The magnetosphere of the earth has several numbers of satellites revolving.

About magnetosphere

- ◆ It is the region around a planet dominated by the planet's magnetic field.
- ✤ The Earth has the strongest one of all the rocky planets.
- It is generated by the convective motion of charged, molten iron, far below the surface in Earth's outer core.

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BoBBLE – Bay of Bengal Boundary Layer Experiment

- It is a project funded by Union Ministry of Earth Sciences and the Natural Environment Research Council of UK.
- ✤ A team from Indian Institute of Science in Bengaluru and UK based University of East Anglia have created a blueprint for accurate prediction of monsoon, tropical cyclones and other weather related forecast.
- The team carried out studies of oceanographic properties on board RV Sindhu Sadhana in the southern Bay of Bengal.

Bug Snifer

- Researchers at the Agharkar Research Institute (ARI), Pune have developed 'bug sniffer,' a sensitive and low-cost sensor to rapidly detect bacteria.
- It can detect pathogens with a limit of detection of 10 cells per 1 milli liter within 30 minutes.





- The most common disease-causing bacteria is Escherichia coli and Salmonella typhimurium.
- ✤ The Bug Snifer is a biosensor that uses synthetic peptides, magnetic nanoparticles, and quantum dots to detect the presence of bacteria.
- The ARI is an autonomous institute under the Department of Science & Technology.



PERSONALITIES, AWARDS, AND EVENTS

International Prize for Arabic Fiction 2020

- The Spartan Court by Abdelouahab Aissaoui has won the 13th International Prize for Arabic Fiction.
- ✤ Aissaoui is the first Algerian to win the prize.
- ◆ It is sponsored by the Emirates Foundation in Abu Dhabi of the UAE.
- The Prize is run with the support, as its mentor, of The Booker Prize Foundation in London and funded by Department of Culture and Tourism, Abu Dhabi (DCT).

IMPORTANT DAYS

World Press Freedom Day – May 03

- ✤ It was proclaimed by the UN General Assembly in December 1993.
- The day May 3 also marks the anniversary of Windhoek Declaration.
- It was a statement of free press principles put together by African newspaper journalists in Windhoek, the capital of Namibia in 1991.





- UNESCO marks World Press Freedom Day by conferring the UNESCO/Guillermo Cano World Press Freedom Prize.
- It is given on a deserving individual, organisation or institution that has made an outstanding contribution to the defence and/or promotion of press freedom anywhere in the world.
- ✤ 2020 Theme is "Journalism without Fear or Favor".
- Since 1993, the Global Conference is organized annually.
- ✤ The Netherlands is the host for 2020 World Press Freedom Conference.



World Laughter Day - May 3

- ✤ It was first celebrated on May 10, 1998, in Mumbai, India.
- The day was arranged by Dr Madan Kataria, founder of the worldwide Laughter Yoga movement in 1998.

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