

EVERYDAY CURRENT AFFAIRS – APRIL 10, 2019

TAMIL NADU

- ◆ **The Election Commission – fixes May 19 for the by-elections in four constituencies, Sular, Aravakurichi, Thiruparankundram and Ottapidaram in Tamil Nadu**
 - ✓ The notification now fills all the 22 vacancies in the Tamil Nadu State assembly
 - ✓ These four constituencies were left out in the first round of polls, scheduled on April 18
 - ✓ The results would be declared on May 23 along with the results of other 18 assembly constituencies
- ◆ **Tamil Nadu – bans all special classes during summer holidays following unprecedented heat in the state**
 - ✓ State board schools are scheduled to close for summer holidays from April 12, about 10 days in advance due to the general elections
 - ✓ The CBSC schools will end on April 26 and the ban is applicable to all the schools in the state, including the CBSC and other board schools
- ◆ **Tamil Nadu Government – instructs schools not to detain any student till Class VIII**
 - ✓ The state education minister, KA Sengottaiyan had earlier announced that no board exams will be conducted this year for the classes V and VIII
 - ✓ The Central Government had earlier amended the Right to Children for Free and Compulsory Education (RTE) Act, 2009, allowing the states to decide on no-detention policy upto Class VIII

◆ **The Nilgiris Mountain Rail – introduces direct train service from Mettupalayam to Ooty after a gap of seven years**



- ✓ It will run as a weekend special on every Saturday until June 29
- ✓ The train will be pulled by a steam engine from Mettupalayam to Coonoor and it will be replaced with a diesel engine at Coonoor till Ooty
- ✓ The railways stopped running the trains in 2012, because of constant breakdowns due to locomotive issues

◆ **Chennai district – has an elector-population ratio of 78, the highest in the State**

- ✓ Chennai district with a population of 49.59 lakh as per 2019 projections, has included 38.66 lakh electors on the rolls so far
- ✓ T. Nagar has reported the highest number of electors for a given population, with an elector-population ratio of 87
- ✓ The Harbour Assembly segment has the lowest elector-population ratio of 66
- ✓ The elector-population ratio is 80 in Dr. Radhakrishnan Nagar, 77 in Perambur, 84 in Kolathur, 86 in Villivakkam, 76 in Thiru-Vi-Ka Nagar, 70 in Egmore, 68 in Royapuram, 66 in Harbour, 76 in Chepauk-Thiruvallikeni, 74 in Thousand Lights, 83 in Anna Nagar, 80 in Virugambakkam, 81 in Saidapet, 87 in Mylapore and 74 in Velachery
- ✓ The ratio of electors for a given population in the Assembly segments is calculated ahead of polls to assess the impact of deletion and inclusion in the rolls.

NATIONAL

◆ **The Election Commission - has decided to use the M3 EVMs in the Lok Sabha Polls in the Nizamabad parliamentary constituency of the Telangana state**



- ✓ Earlier, it had planned to use Ballot papers as 185 candidates are in the fray in the constituency
- ✓ The Election Commission has ordered Electronics Corporation of India Limited (ECIL) to supply 26,820 EVMs, 2,240 control units and 2,600 Voter-Verified Paper Audit Trails (VVPAT) of M3 make

- ✓ In each of the polling station, there will be 12 M3 version EVMs, arranged in L shape with each machine carrying a maximum of 16 names
- ✓ M3 EVMs are the third generation EVMs, that can keep data of 384 candidates
- ✓ They also has added features like Tamper Detection and Self Diagnostics for better security and safety aspect

◆ **The Cabinet Committee of Security - has cleared the proposal for the procurement of the 464 T-90 tanks from Russia at a budget of over Rs 13,000 crores**



- ✓ The deal also includes a Make-in-India element for integration at the Heavy Vehicles Factory in Avadi near Chennai
- ✓ T-90 battle tanks are expected to be deployed on the borders with Pakistan, replacing the older variants of T-72 and T-55 tanks in the force
- ✓ The new T-90 tanks would be equipped with thermal imaging night sights for waging battle during nights

COURT VERDICTS

◆ **The Supreme Court - ruled on April 9, 2019 that a woman can file a case of dowry harassment from the place she has taken shelter under Section 498 of the Indian Penal Code (IPC)**

- ✓ The bench led by Chief Justice Ranjan Gogoi relaxed Section 177 of the Code of Criminal Procedure (CrPC), which mandates that criminal cases can be filed and tried only in courts within whose jurisdiction the crime occurred.
- ✓ The verdict came as a big relief to women fighting dowry harassment cases outside the jurisdiction of their matrimonial home

◆ **The Madras High Court – bars teachers from schools and colleges taking tuition after working hours**

- ✓ It had directed the State Government to create a toll-free helpline within a period of 8 weeks and display it prominently in the schools, so that the parents and children file a complaint on issues of indiscipline, illegal activities, irregularities along with sexual harassment cases
- ✓ The Government should take action within 24 hours after receiving such complaints, the HC said.
- ✓ Justice S M Subramaniam cited the rule 9 of Tamil Nadu Government Servants Conduct Rules which prohibits a teacher engaging in any trade or business or undertake any employment

INTERNATIONAL

◆ **New York City – declares a public health emergency on April 9, following a measles outbreak in the ultra-orthodox jewish community in Brooklyn**

- ✓ Across the entire country, there have been 465 measles cases since the start of 2019, with 78 new cases in the last week alone

◆ **Sri Lanka – opens a new railway line, built with China's assistance, connecting the coastal city of Matara and Beliatta in Hambantota**



- ✓ The 26.75-km long railway extension is the first to be constructed in Sri Lanka since 1948
- ✓ The cost of the project was estimated to be \$278 million
- ✓ According to China, it was a major Belt and Road Initiative (BRI) project in Sri Lanka

◆ **Google's drone delivery – launched in Australia**



- ✓ The first air delivery was made by the Google's parent company Alphabet Inc., in North Canberra, Australia
- ✓ The company's drone delivery arm, Wing, delivered the services to a limited set of eligible homes
- ✓ Wing has been testing drone delivery in Australia since 2014

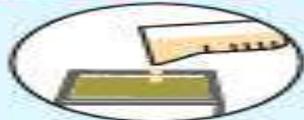
SCIENCE, TECHNOLOGY & ENVIRONMENT

◆ Professors from Anna University, Chennai – has developed a device called ‘antibiogramoscope’ to detect antibiotic resistance



INNOVATION: Tests using this device called antibiogramoscope will cost less and are faster

HOW IT WORKS



1 Biological fluid (urine or blood plasma) is mixed with antibiotic sensitivity testing medium



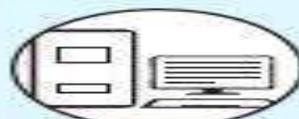
2 It goes into micro wells containing different antibiotics



3 Incubated for 6 hours at 37°C (bacteria produces erucamide)



4 Fluorescence or non-fluorescence pattern recorded by camera as image. No fluorescence means drug resistance



5 Device processes images and prepares reports



6 It sends the report to the doctor or health institution by email

ADVANTAGES:

Affordable device (₹1.5 lakh in place of imported equipment that costs ₹20 lakh)

> Test takes less time (takes 6 hours instead of 48)

> Test costs less than (₹300 in place of ₹2,000)

- ✓ It identifies resistant strains of bacteria within six hours, thereby helping physicians choose the correct drug, at a charge of Rs 100 to Rs 300
- ✓ The existent tests need atleast 48 hours to detect at a cost ranging between Rs 500 to Rs 2000

- ✓ The project is supported by University Grants Commission and Department of Science and Technology and consists of professors from various streams including biotechnology, medical electronics, electronics and communication, manufacturing, medical physics and instrumentation
- ✓ The device had cleared the validation test at National Accreditation Board for Testing and a Calibration Laboratories (NABL) accredited microbiological lab in Coimbatore
- ✓ Commercial production will be started after further tests to be done at CMC, Vellore and AIIMS, Delhi

◆ **Scientists - have found a new state of physical matter recently, which is solid and liquid at the same time**



- ✓ Researchers have found that some elements when subjected to extreme conditions, assume unusual but stable properties of both solid and liquid states
- ✓ As per the information published in national geographic, the computer models confirmed that between about 20,000 and 40,000 times atmospheric pressure and 400 to 800 Kelvin (260 to 980 degrees Fahrenheit), the potassium entered what's called a chain-melted state, in which the chains dissolved into liquid while the remaining potassium crystals stayed solid.
- ✓ The work was carried out in collaboration with scientists from Xi'an Jiantong University in China

DEFENCE

◆ **The 12th edition of 'Bold Kurukshetra 2019', a joint military exercise between India and Singapore - began on April 8, 2019 at Babina Cantonment, Jhansi, Uttar Pradesh**



- ✓ The three-day exercise is being conducted to develop military technology, boost maritime security and to fight against terrorism
- ✓ The Indian contingent was led by Colonel SP Singh
- ✓ India and Singapore had signed a cooperation agreement in November 2017 to strengthen the defence relations between Indian Military and Singapore Armed Forces

◆ **President Ram Nath Kovind - launched 'Veer Parivar App', a mobile application for families of CRPF personnel killed in the line of duty on April 9, 2019**



- ✓ The app was launched after the President paid his tributes to the martyrs at the National Police Memorial in Delhi on the occasion of the CRPF's 'Valour Day'
- ✓ The app will act as an interface between the Central Reserve Police Force (CRPF) authorities and the families of the martyred CRPF personnel
- ✓ It will render assistance on a real-time basis regarding issuance of ex gratia, pension benefits and all other information regarding the welfare schemes introduced for them by the government
- ✓ The Android-based app will be installed by the CRPF officials securely on the phone of the families and will not be available over the app stores
- ✓ The Central Reserve Police Force observed its 54th Valour Day on April 9, 2019
- ✓ The day marks gallant fight back by a small contingent of the 2nd Battalion of CRPF against an attack by a Pakistani Brigade at the Sardar post in Gujarat's Rann of Kutch on April 9, 1965.
- ✓ On the occasion this year, the President presented gallantry medals to six Jawans posthumously

ECONOMY

◆ **Ford – is on the process of finalizing a joint venture with Mahindra & Mahindra to partially exit from the Indian market**

- ✓ This will be the second Detroit auto major to exit the country after General Motors
- ✓ Ford will hold 49% stake in the JV while Mahindra holds a majority 51%
- ✓ The deal is expected to conclude within 3 months
- ✓ After nearly 25 years and \$2 billion investment, the Dearborn-Michigan headquartered Ford will transfer its automobile business in India to the new JV, including plant and staff
- ✓ Ford has two plants, at Sanand in Gujarat and at Maraimalainagar outside Chennai, with an installed capacity to produce 4.4 lakh cars and 6.1 lakh engines per annum respectively
- ✓ The two companies were partners when Ford entered India in the early 90s until they parted ways in 1998
- ✓ Last year, both the companies said that they will share BS6 engines and develop connected vehicle options in India

AWARDS

◆ **India's education technology start-up 'Dost education' – bagged \$25,000 Next Billion Edtech Prize 2019 – along with two other winners, Ubongo (Tanzania) and PraxiLabs (Egypt)**

- ✓ Dost Education was awarded for its ability to empower parents to take charge of their child's early education by creating short, friendly audio content sent through mobile phones
- ✓ Next Billion Edtech Prize 2019 is awarded by the UK-based Varkey Foundation
- ✓ It recognises the most innovative technology destined to have a radical impact on education in low income and emerging world countries

SPORTS

◆ **Asian Shotput champion, Manpreet Kaur – suspended for four years by National Anti-Doping Agency (NADA) for failing dope test four times in 2017**

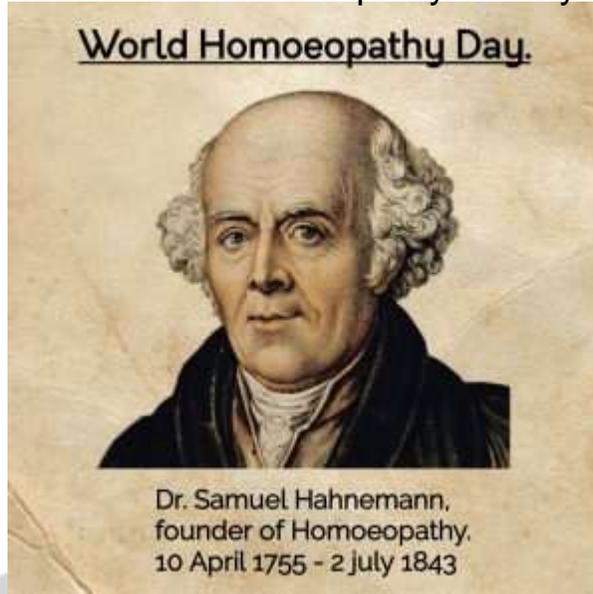


- ✓ An anti-doping panel headed by Kuldeep Singh had ruled that the period of ineligibility would commence from July 20, 2017, the date of her provisional suspension
- ✓ Manpreet is set to lose the gold she won in the 2017 Asian championships in Bhubaneswar as well as her national record
- ✓ She was tested positive on four occasions in 2017 at the Asian Grand Prix at Jinhua, China on April 24, followed by Federation Cup in Patiala on June 1, Asian Athletics Championships in Bhubaneswar on July 6 and the Inter-State championships in Guntur on July 16
- ✓ She had won gold in all these meets and set the national record of 18.86m at Jinhua
- ✓ She tested positive for the steroid metenolone at the Jinhua Asian GP meet and at the other three meets in India, she tested positive for the stimulant dimethylbutylamine

INTERNATIONAL DAY

◆ **World Homoeopathy Day 2019 – April 10**

- ✓ The day commemorates the birth anniversary of the founder of Homoeopathy, Dr. Christian Fredrich Samuel Hahnemann
- ✓ Samuel Hahnemann discovered Homeopathy in the year 1796



- ✓ The observance of the day aims to create better awareness about homoeopathy, improve its accessibility and to modernise the system of healing
- ✓ Samuel Hahnemann, a German physician, a great scholar, linguist and an acclaimed scientist, is known as the Father of Homeopathy, Father of Human Pharmacology, Father of Nano Medicine and the Father of Infinite Dilution concept in Chemistry
- ✓ The week following the birth date of Hahnemann, that is, 10 April- 16 April is observed as the World Homeopathic Awareness Week.

REPORT

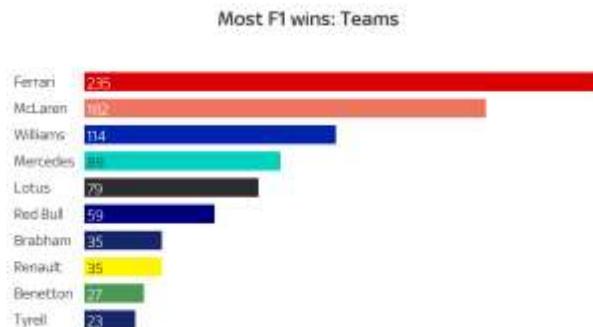
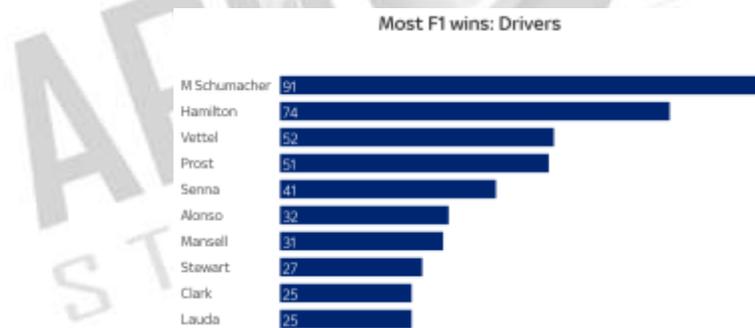
◆ **World Economic Outlook 2019 April report – Released by IMF Chief Economist Gita Gopinath**



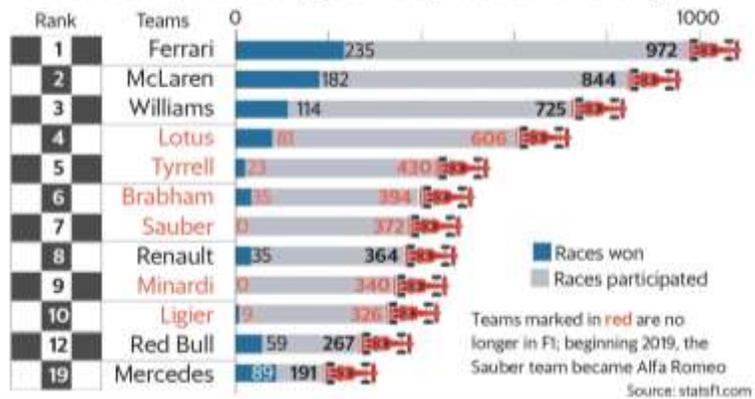
- ✓ The International Monetary Fund (IMF) has projected that global growth will be 3.3% in 2019, down from 3.6% in 2018 and 4% in 2017
- ✓ This lower projection is due to a slower global expansion in the second half of 2018 caused by U.S.-China trade tensions, macroeconomic stress in Turkey and Argentina, tighter credit policies in China and financial tightening, apart from a normalisation of monetary policy in advanced economies
- ✓ India's growth is projected to pick up, from 7.1% in 2018, to 7.3% in 2019 and 7.5% in 2020
- ✓ Beyond 2020, global growth is expected to level out at 3.6% over the medium term
- ✓ Advanced economies are expected to slow down to 1.6% growth by 2022 and remain at that rate thereafter.
- ✓ For emerging markets and developing countries, growth is expected to steady at 4.8% over the medium term

1000 RACES IN FORMULA 1 HISTORY

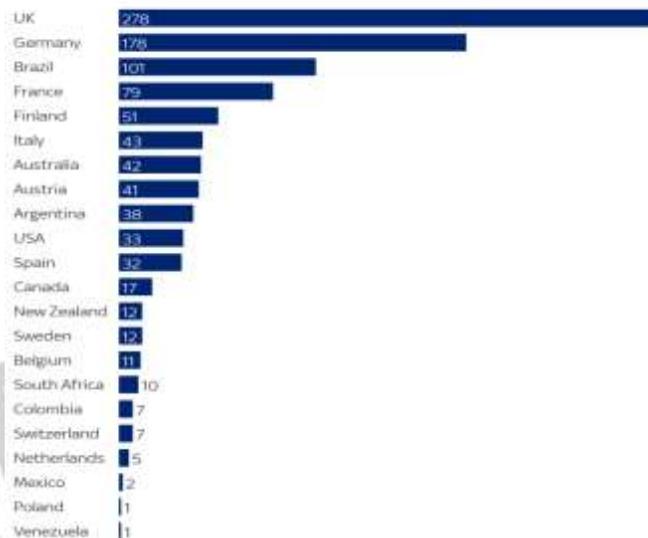
◆ **Chinese Grand Prix – to be conducted on April 14 will be the 1000th race of the F1 world championships, since the first at Silverstone in 1950**



Five of the top 10 leading teams by races are no longer in F1



F1 race winners by nation



There is only one non-European team in F1

Team	Nation	Debut	Won a race	Won the driver's title
Alfa Romeo	Switzerland	1950	Yes	No
Ferrari	Italy	1950	Yes	Yes
Mercedes	Germany	1954	Yes	Yes
McLaren	UK	1966	Yes	Yes
Williams	UK	1975	Yes	Yes
Renault	France	1977	Yes	Yes
Red Bull	Austria	2005	Yes	Yes
Toro Rosso	Italy	2006	Yes	No
Haas	US	2016	No	No
Racing Point	UK	2019	No	No

Teams marked in purple is non-European

Source: statsf1.com

The following are some of the main numbers:

- ✓ **0.5** – Points scored by women drivers in Formula One history. Only two women have started a race, both Italian — Maria Teresa de Filippis and Lella Lombardi. Lombardi finished sixth in Spain in 1975, with half points awarded after the race was cut short due to a fatal accident.

- ✓ **1** – One posthumous champion, Austrian Jochen Rindt who died during practice for Lotus at Monza in 1970. His widow Nina collected the trophy.
- ✓ **7** – The most championships won by a driver, with Germany's Michael Schumacher taking his seventh in 2004 with Ferrari.
- ✓ **10** – British champions, a record for any country. Brazil, Germany and Finland each have three. 19 Britons have won races.
- ✓ **16** – Ferrari have won 16 F1 constructors' titles, another record, and six were consecutive between 1999 and 2004.
- ✓ **16** – Ferrari have won 15 F1 drivers' championships, more than any other team.
- ✓ **17** – Dutch driver Max Verstappen was 17 when he became the youngest F1 driver with Toro Rosso.
- ✓ **18** – Max Verstappen was the youngest race winner at 18, with Red Bull, at the 2016 Spanish GP.
- ✓ **21** – Countries to have had a race winning driver.
- ✓ **29** – Titles decided in the last race of the season. Most recently in 2016, when Germany's Nico Rosberg took the title for Mercedes in Abu Dhabi.
- ✓ **33** – The number of world champions, from Giuseppe Farina to Hamilton. There are 20 still living, with Jackie Stewart (1969, 1971 and 1973) the longest standing.
- ✓ **34** – Constructors to have won races. The top four (Ferrari, McLaren, Williams and Mercedes) have won 620 of 999 so far.
- ✓ **46** – Oldest world champion. Argentina's Juan Manuel Fangio in 1957 was 46 years and 41 days when he won his fifth title.
- ✓ **53** – The oldest race winner, at 53, was Italian Luigi Fagioli who was born in 1898 and contested seven championship races in 1950 and 1951. He won in France in 1951 and died in 1952 during Monaco GP practice.
- ✓ **55** – Monaco's Louis Chiron remains the oldest driver to start a race, in his home grand prix in 1955.
- ✓ **61** – The number of constructors' championships so far. Since Vanwall won the first in 1958, 15 teams have been champions.
- ✓ **71** – The number of tracks to have hosted a race. A total of 32 nations, not including Luxembourg and San Marino whose names were on grands prix held in Germany and Italy respectively, have held F1 races.
- ✓ **83** – Ferrari have had a record 83 one-two finishes over the years, with McLaren next on 47. Mercedes have 46.
- ✓ **84** – No driver has had more pole positions than Lewis Hamilton, who took his 84th in Australia in March.
- ✓ **91** – Most races won by a driver, set by Schumacher whose last was in China in 2006 with Ferrari (his 72nd for the team).
- ✓ **99** – Since 1950, 99 drivers have started a race on pole position. Leclerc, in Bahrain last month, was the 99th in the 999th race.
- ✓ **107** – Formula One race winners, including Indianapolis 500 between 1950 and 1960.

- ✓ **155** – Most podium appearances by a driver, Schumacher again.
- ✓ **163** – British drivers, more than any other country.
- ✓ **220** – Poles for Ferrari, a record. McLaren are next on 155.
- ✓ **235** – Wins for Ferrari, the oldest team in the sport and only ones to have raced in every season. McLaren are on 182.
- ✓ **323** – Brazilian Rubens Barrichello, Schumacher's team mate at Ferrari, started more races than any driver.
- ✓ **752** – Podium finishes for Ferrari, another record.
- ✓ **764** – Drivers to have started an F1 race.
- ✓ **974** – Races participated in by Ferrari (972 starts).

Centurion Race years

- ✓ **1** – British Grand Prix, Silverstone. May 13, 1950
- ✓ **100** – German Grand Prix, Nurburgring. August 6, 1961
- ✓ **200** – Monaco Grand Prix, May 23, 1971
- ✓ **300** – South African Grand Prix, Kyalami. March 4, 1978
- ✓ **400** – Austrian Grand Prix, Oesterreichring. August 19, 1984
- ✓ **500** – Australian Grand Prix, Adelaide. November 4, 1990
- ✓ **600** – Argentine Grand Prix, Buenos Aires. April 13, 1997
- ✓ **700** – Brazilian Grand Prix, Interlagos. April 6, 2003
- ✓ **800** – Singapore Grand Prix. September 28, 2008
- ✓ **900** – Bahrain Grand Prix. April 6, 2014
- ✓ **1000** – Chinese Grand Prix, Shanghai. April 14, 2019

