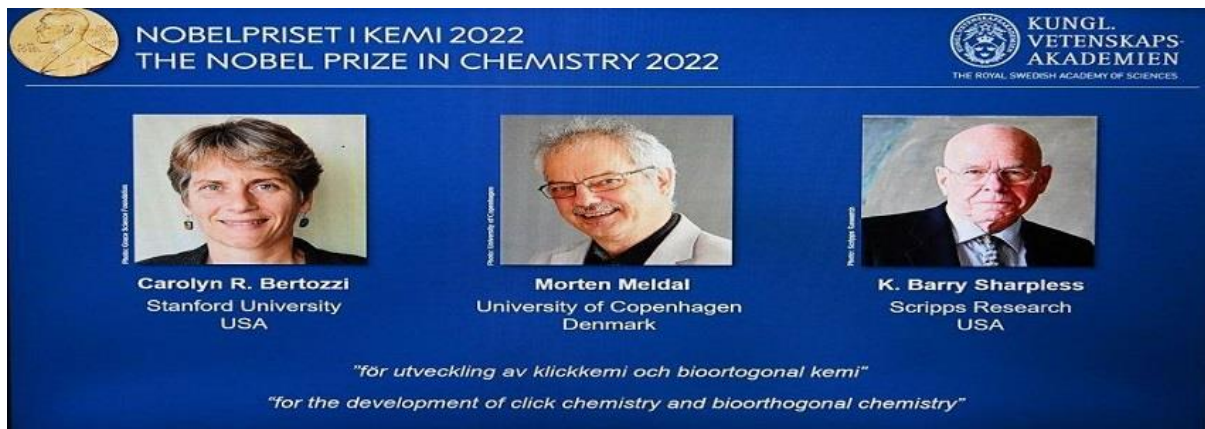


## Nobel Prize in Chemistry jointly awarded to one Danish and two American scientists



The Nobel Prize in Chemistry has been jointly awarded to Carolyn Bertozzi, Morton Meldal and Barry Sharpless for their work on snipping molecules together, known as click chemistry. "Click" chemistry is about linking together molecules like those in living cells. Their work is used to explore cells and track biological processes and can be applied in cancer treatment drugs. They were cited for their work on click chemistry and bioorthogonal reactions. These are used to make cancer drugs, map DNA and create materials that are tailored to a specific purpose.

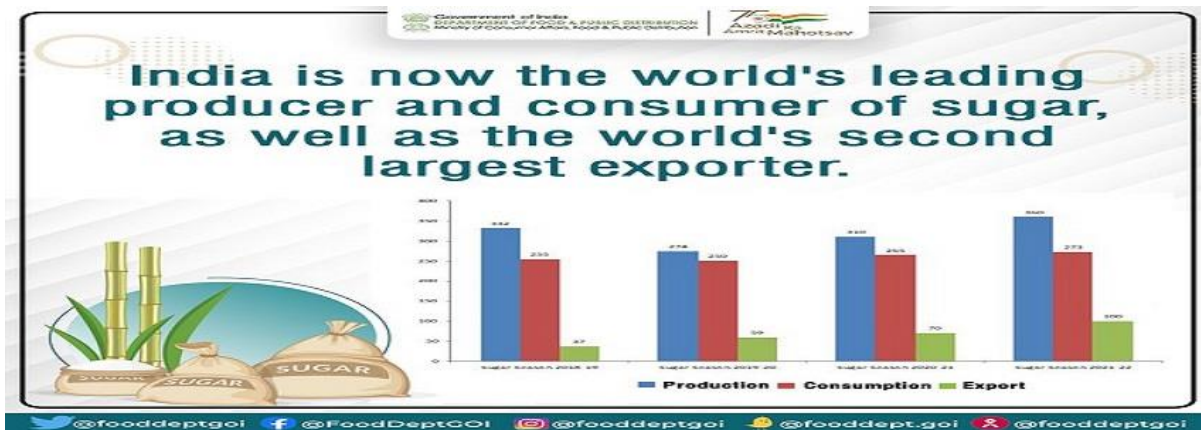
Eighty-one-year-old Barry Sharpless, who previously won a Nobel Prize in 2001 and is now the fifth person to receive the award twice, first proposed the idea of connecting molecules using chemical "buckles" around the turn of the millennium.

## OPEC & its Russia-led allies decide to cut oil production by two million barrels per day



Organization of the Petroleum Exporting Countries (OPEC) and its Russia-led allies have agreed to cut oil production by two million barrels a day at a Vienna meeting. It is the deepest cuts to oil production since the 2020 COVID pandemic. The cut could spur a recovery in oil prices that have dropped to about 90 dollars from 120 dollars three months ago on fears of a global economic recession, rising US interest rates, and a stronger dollar.

## India emerges as world's largest producer of sugar



India has emerged as the world's largest producer and second-largest exporter of sugar. In Sugar Season 2021-22, a record of more than five thousand Lakh metric tons of sugarcane was produced in the country. Out of this, 35 lakh metric tons of sugar was diverted to ethanol production and 359 lakh metric ton of sugar was produced by sugar mills. Consumer Affairs, Food and Public Distribution Ministry said, the season has proven to be a watershed season for Indian Sugar Sector. Records highest sugar exports of over 109 lakh metric ton has been registered. These exports earned foreign currency of about 40 thousand crore rupees.

## India registers decline in female IMR; PM lauds collective commitments of 130 crore Indians to strengthen Nari Shakti



### India's female IMR drops to same level as males'

In 13 States, Girls' IMR Same As Or Less Than Boys'

Source: Registrar General of India

India, which had the highest female infant mortality rate (IMR) in the world, has now become the first country in the world where the female IMR is at par with the male IMR. This is a significant achievement for the country, which has been striving to reduce the IMR for several years. The Registrar General of India has announced that the female IMR has dropped to 28, which is the same as the male IMR of 28. This is a historic moment for India, as it has been the only country in the world where the female IMR was higher than the male IMR for a long time.

State/UT	Male IMR	Female IMR
Andhra Pradesh	28	28
Chhattisgarh	28	28
Goa	28	28
Karnataka	28	28
Kerala	28	28
Madhya Pradesh	28	28
Manipur	28	28
Mizoram	28	28
Nagaland	28	28
Northeast India	28	28
Odisha	28	28
Tamil Nadu	28	28
West Bengal	28	28

**THIS IS A GREAT SIGN, REFLECTIVE OF THE COLLECTIVE COMMITMENT OF 130 CRORE INDIANS TO STRENGTHEN OUR NARI SHAKTI.**

Prime Minister Narendra Modi has lauded the collective commitments of 130 crore Indians to strengthen Nari Shakti in the country. India has registered decline in female infant mortality rate. The country's female Infant Mortality Rate (IMR) dropped to same level as males. However in sixteen states, IMR remained higher for female babies than male but the gap had reduced since 2011. According to Sample Registration System Statistical Report 2020, Chhattisgarh had the highest gap in 2020, with a male infant mortality rate of 35 compared to female infant mortality rate of 41.

Infant mortality rate is the number of infant deaths for every one thousand live births.

### **Indian Railways converts 500 Mail Express trains to Superfast category**



Indian Railways has converted 500 Mail Express trains to the Superfast category. In addition to this, 130 services (65 pairs) have also been speeded up by converting to the Superfast category. The speeding up of trains is between 10 minutes to 70 minutes. The Ministry said, the punctuality of Mail Express trains during the year 2022-23 is about 84 percent which is about 9 percent more than the punctuality achieved during 2019-20.

### **World Trade Organization forecasts slowdown in global trade growth**



The World Trade Organization forecast a slowdown in global trade growth next year as sharply higher energy and food prices and rising interest rates curb import demand. It also warned of a possible contraction if the war in Ukraine worsens. The Geneva-based trade body said that merchandise trade would increase by 3.5 per cent this year, up from its April estimate of three per cent. However, for 2023, it sees trade growth of just one per cent, compared with a previous forecast of 3.4 per cent.

WTO Director-General Ngozi Okonjo-Iweala told that the picture for 2023 has darkened considerably. She said if the war in Ukraine worsens, it will have a huge impact.



### **Elon Musk again proposes to buy Twitter at originally agreed-on price**



Tesla CEO and billionaire Elon Musk has again proposed to buy Twitter at the originally agreed-on price of 44 billion dollars. He made the request in a letter to Twitter that it disclosed in a filing with the US Securities and Exchange Commission. It came less than two weeks before a trial between the two parties over Musk's attempt to back out of the deal is scheduled to start in Delaware.

### **Service sector activity hits 6-month low in Sept amid inflationary pressures: PMI**



The Indian services sector activity fell to a six-month low in September, as new business inflows rose at the slowest rates since March, amid inflationary pressures and competitive conditions, a monthly survey said. The seasonally adjusted S&P Global India Services PMI Business Activity Index fell to 54.3 in September, from 57.2 in August, highlighting the weakest rate of expansion since March.

For the fourteenth straight month, the services sector witnessed an expansion in output. In Purchasing Managers' Index (PMI) parlance, a print above 50 means expansion, while a score below 50 denotes contraction.

### **CIPACA to generate ₹1000 cr funding support to rural hospitals**



CIPACA, a leading rural ICU care provider in India, is partnering with prominent banking and non-banking organisations to create funding assistance of ₹1000 crore for the expansion of rural hospitals in India. CIPACA has now joined hands with RupeesBoss to provide funding assistance to help rural hospitals grow multifold. It is also in the process of forging such partnerships to facilitate funding support to rural hospitals that are keen on expanding their infrastructure and operations.

CIPACA has its footprint across 9 states through partnerships with hospitals in small towns and rural areas and has been providing 24x7 emergency and ICU services to rural critical patients.

### **PR Sreejesh, Savita Punia voted FIH Men's and Women's Goalkeeper of the Year**



PR Sreejesh and Savita Punia have been voted FIH Men's and Women's Goalkeeper of the Year for the second year in a row. Savita Punia, the captain of the Indian women's hockey team, and veteran goalkeeper PR Sreejesh both received the FIH goalkeeper of the year title in the men's and women's categories on the strength of their performances. Savita is just the third athlete to win Goalkeeper of the Year (Women) for three years in a row since the award's debut in 2014.



## Shrikrishna wins World 6-red title



S. Shrikrishna of India became the new World 6-red snooker champion when he defeated Habib Sabah of Bahrain 51-4, 0-39, 63-0, 39-0, 45-7, 43-2 in the final. The 22-year-old completely outplayed Habib in a one-sided best-of-nine frames final. The 22-year-old was dominant from the word go in the title clash, which was totally one sided. The title was won by India's Laxman Rawat in the last edition.

## Kuldeep Sen takes 5 as Rest of India regain Irani Trophy by 8 wickets



Kuldeep Sen blew away the last two batters with scorching pace and steep bounce to finish with a match haul of eight wickets as Rest of India won their 29th Irani Trophy with a walk-in-the-park eight-wicket victory over Saurashtra .While Saurashtra gave a much better account of themselves in the second innings a total of 380 meant Rest needed only 105 runs with almost two days of play left.

## Two more skeet bronze medals in World C'ship



India won yet another bronze at the International Shooting Sport Federation (ISSF) World Championship Shotgun in Osijek, Croatia, when Bhavtegh Singh Gill, Rituraj Bundela and Abhay Singh Sekhon defeated Czech Republic 6-2 in the bronze medal match of the Skeet Team Men Junior competition at the Olympic Shooting Range 'Pampas'. This was India's fourth medal and second bronze of the championships.

## 36th National Games: Services lead medal table with 89 medals followed by Haryana with 66 medals

	GOLD	SILVER	BRONZE	TOTAL
1 SSCB	40	25	24	89
2 HARYANA	25	22	19	66
3 MAHARASHTRA	24	22	42	88
4 TAMIL NADU	18	17	18	53
5 UTTAR PRADESH	18	13	12	43
6 PUNJAB	14	21	18	53
7 KARNATAKA	14	14	24	52
8 MANIPUR	13	5	11	29
9 KERALA	11	15	6	32
10 WEST BANGAL	11	11	16	38

At the 36th National Games, Services continue to dominate medals tally with 89 medals including 40 golds, 25 silvers, and 24 bronze, followed by Haryana with 66 medals including 25 gold, 22 silver, and 19 bronze. Maharashtra is in third place with 24 gold medals, 22 silver, and 42 Bronze. Tamil Nadu is now in fourth place with 52 medals including 18 gold, 17 silver, and 18 bronze.

### **Messi first player to score against 40 different teams in Champions League**



Lionel Messi has become the first player to score against 40 different opponents in the UEFA Champions League, with Benfica the latest to be added to his list. The Argentine striker also has now scored in his sixth straight game in all competitions for club and country. He's behind Cristiano Ronaldo and Ali Daei. Messi now has 90 goals in 164 appearances for Argentina. He is also second, behind Ronaldo, on the list of top active international goalscorers and is followed by India captain Sunil Chhetri, who has 84 goals in 131 matches.