



# THE TIMES OF INDIA

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**TODAY'S EDITION**

➤ As the world gears up for a vaccine against Covid-19, know everything about vaccines and how they work  
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➤ Six tips on how to create your digital fandom...  
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➤ 3 takeaways from India's T20I series win over Australia  
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**STUDENT EDITION**

TUESDAY, DECEMBER 8, 2020



**WEB EDITION**

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## CBSE EXAMS: ONLINE PRE-BOARDS FROM DEC THIRD WEEK

# THE NEW NORMAL: AI, MIRRORS AND PARENTS AS INVIGILATORS

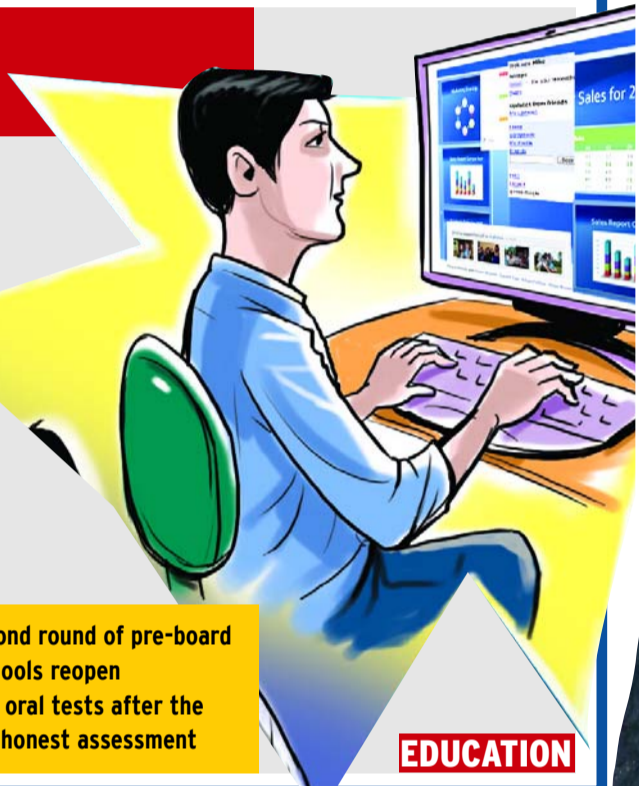
**W**ith an eye on CBSE Board exams for class X and XII, schools are gearing up to conduct pre-board examinations online after the second week of December. Several schools have developed their own Artificial Intelligence(AI)-based platforms for these tests.

**On December 3, CBSE had announced that the Board exams scheduled for next year will be conducted offline. However, with the possibility of conducting pre-boards online, schools are trying to ensure that no unfair means are adopted by students while taking the test**

### HOW SCHOOLS ARE PREPARING FOR ONLINE PRE-BOARDS

- Most schools have decided to conduct the tests online
- Guardians of students have been assigned as invigilators
- Some schools have taken a step forward and asked students to keep a mirror behind them so that the camera captures various angles
- Students have also been told to use two devices for writing the test— one to assess the question paper and the other to use as a monitoring camera
- Interestingly, some schools are employing AI-based platforms for smoother monitoring and assistance of students. The software will take photos every few seconds and create time-lapse videos of each examinee to be shared with the teachers. It will help identify students asking for external help or looking away
- Multiple photo grabs of students taken every few seconds are stitched to create a time lapse video of every examinee, which is shared with the teachers for proctoring as a report

■ According to reports, a second round of pre-board might be conducted, once schools reopen  
■ Some schools might opt for oral tests after the virtual exams are over for an honest assessment

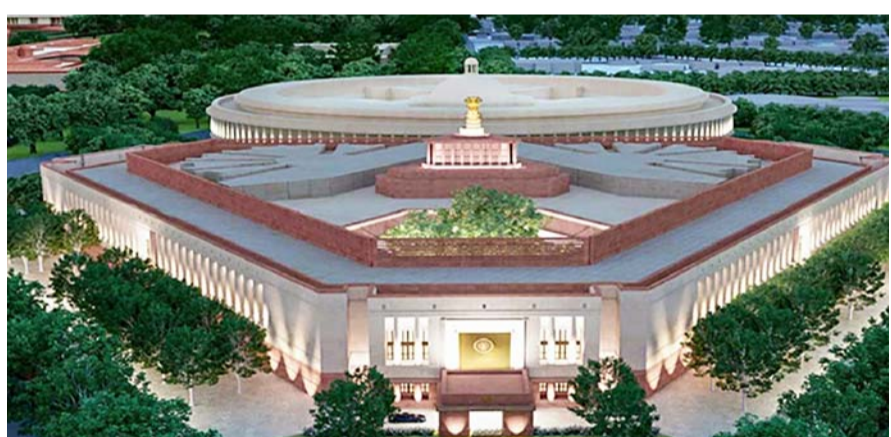


**EDUCATION**

### Quote unquote

As humans, after a while, even the best thing becomes boring. In any event of life, boredom is a human quality. The only way to fight it is reinvention to do something. There's an old saying, 'If you do something very well with your right hand, then you should try it with your left hand as well'. So, get out of your comfort zone and muscle memory to find new muscle memories, find something new through that process

**AR RAHMAN,**  
music  
composer



## What will the new Parliament BUILDING BE LIKE

**T**he new Parliament building, whose foundation stone will be laid by PM Narendra Modi on December 10, is likely to be ready by 2022. Lok Sabha speaker Om Birla has said. ■ Spread over **64,500 square metres**, the new building is being built at an estimated cost of **₹71 crore**, and will be earthquake resistant. ■ According to the Lok Sabha speaker, in the new building, the Lok Sabha chamber will have a seating capacity for **888 members**, while Rajya Sabha will have **384 seats**. ■ This has been done keeping in mind the future increase in the number of members for the two Houses. At present, the Lok Sabha has a sanctioned strength of 543 members and the Rajya Sabha 245. ■ There will be a basement, ground, first

### WHAT HAPPENS TO THE EXISTING PARLIAMENT HOUSE?

➤ The existing Parliament building will be conserved, as it is an archeological asset of the country. The existing building is a massive circular edifice, with 560 feet in diameter.  
➤ The foundation stone of the existing Parliament House was laid on February 12, 1921; the construction took six years, and cost ₹ 83 lakh at that time. It was inaugurated by the then governor-general of India, Lord Irwin, on January 18, 1927

and second floor in the new building, and its height will be same as the old building, so that both are in symmetry. ■ The office of all MPs in the new building will be equipped with the latest digital interfaces as a step to-



## 'Wonder Woman 1984' to hit the cinema screen in India on December 24

**W**onder Woman 1984 starring Hollywood actress Gal Gadot as the titular DC superhero is slated to be released in Indian theatres on December 24, studio Warner Bros Pictures (India) has announced. Directed by Patty Jenkins, the film will release in the country in English, Hindi, Tamil and Telugu.



### NEWS IN BRIEF

- The highly-anticipated follow-up to the 2017 DC superhero blockbuster, 'Wonder Woman 1984' will see Gadot reprise her role as the Amazonian warrior Diana Prince/ Wonder Woman and Jenkins return at the helm
- The sequel follows Wonder Woman facing two all-new foes: Max Lord, played by 'Narcos' star Pedro Pascal, and The Cheetah, essayed by Kristen Wiig, known for 'Bridesmaids'
- Jenkins said the upcoming film follows the 'superhero' cast on an epic journey

**ENTERTAINMENT**

### TECH BUZZ

## Samsung may launch foldable phones in 2021



**S**amsung is reportedly planning to launch three kinds of foldable smartphone models next year. According to OLED research firm UBI Research, these will likely be called Galaxy Z Flip 2, Galaxy Z Fold 3 and a new Galaxy Z Fold Lite. All three models will use ultra-thin glass as cover windows.

## Jehan Daruvala creates history, becomes first Indian to win F2 race

**P**romising Indian racer Jehan Daruvala created history when he became the first Indian to win a Formula 2 race during the Sakhir Grand Prix on Sunday. A thrilling battle against F2 champion Mick Schumacher and Daniel Ticktum saw the 22-year-old Indian emerge on top in the support race of the season-ending Formula 1 Grand Prix. Jehan, driving for Rayo Racing, had a good launch from second on the grid, and was up alongside pole sitter Daniel Ticktum.

“Motorsport is pretty big in India. We obviously have a lot of people, so I have a big fan base back home, and my goal at the end of the day is to make myself and my country proud”  
**JEHAN DARUVALA**



## FACTOID \$512K

**P**rice of the Jerseys worn by retired NBA legend Michael Jordan, former US President Barack Obama and ex-NFL quarterback Colin Kaepernick that were sold at an auction recently. The 1984 "signing day" number 23 jersey of former Chicago Bulls icon Jordan, who guided the club to six NBA crowns in the 1990s, went for \$320,000. The 1984 "signing day" number 23 jersey of former Chicago Bulls icon Jordan, who guided the club to six NBA crowns in the 1990s, went for \$320,000. It set a record sale price for any jersey worn by the five-time NBA Most-Valuable Player and 14-time NBA All-Star playmaker



The previous record payout for a Jordan jersey was set last July 18 for \$288,000, for one worn in the 1998 Eastern Conference finals against Indiana

**T**he health of Australia's Great Barrier Reef, the world's most-extensive and spectacular coral reef ecosystem, is in a critical state and deteriorating, as climate change warms up the waters in which it lies, an international conservation group said.

The World Heritage-listed site off Australia's northeastern coast has lost more than half its coral in the past three decades. Coral-bleaching in 2016, 2017 and 2020 has further damaged its health and affected its animal, bird and marine population, the International Union for Conservation of Nature said. Such bleaching occurs when hotter water destroys the algae, which the coral feeds on, causing it to turn white



## Great Barrier Reef status lowered to CRITICAL & DETERIORATING

### ENVIRONMENT

➤ Progress towards safeguarding the reef under a long-term sustainability plan through to 2050 has been slow and it has not been possible to stop its deterioration, it said  
➤ The turtle population – including loggerhead, hawksbill and northern green as well as the scalloped hammerhead shark, many seabird population and possibly some dolphin species are on the decline

## NEWS IN CLUES

## WHICH COUNTRY HOSTS THE PERMANENT SECRETARIAT OF THE SAARC?

**CLUE 1:** It boasts a female President, Bidhya Devi Bhandari, the first woman to hold the office in the country

**CLUE 2:** Sandeep Lamichhane became the first cricketer from the country to play in the IPL

**CLUE 3:** It also boasts the only national flag in the world that doesn't have four sides

**ANSWER: NEPAL.** The Himalayan nation is unlikely to back down on the Kalapani dispute, as its foreign ministry has listed the publication of its new map, among the high-lights of Nepal's foreign policy this year. Nepal maintains that territories to the east of Kali river, belonged to Nepal, according to Article 5 of the Treaty of Sugauli



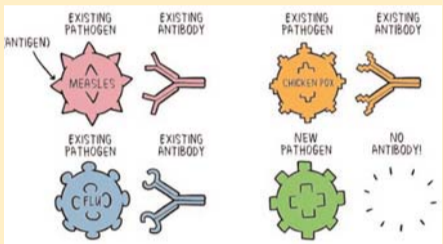
## HOW VACCINES WORK

**G**erms are all around us, both in our environment and bodies. When a person is susceptible and they encounter a harmful organism, it can lead to diseases. The body has many ways of defending itself against pathogens (disease-causing organisms). When a pathogen infects the body, our body's defences—the immune system—are triggered and the pathogen is attacked and destroyed.

### BODY'S RESPONSE

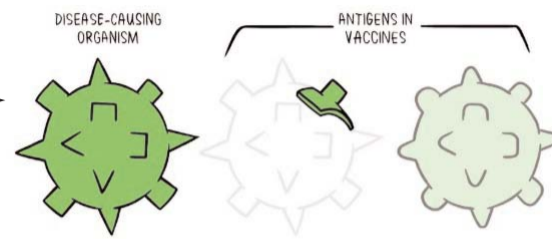
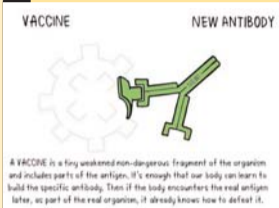
■ A pathogen is a bacterium, virus, parasite or fungus that can cause disease. ■ The sub-part of a pathogen that causes the formation of antibodies is called an antigen. ■ The antibodies produced in response to the pathogen's antigen are an important part of the immune system. ■ You can consider antibodies as the soldiers in your body's defense system. ■ Each antibody, or soldier, in our system is trained to recognise one specific antigen. ■ Once the antibodies are produced, they work to destroy the pathogen and stop the disease. ■ Once the body produces antibodies in its primary response to an antigen, it also creates antibody-producing memory cells.

■ This means that if the person is exposed to the dangerous pathogen in the future, the immune system will respond immediately.



### HOW VACCINES HELP

■ Vaccines contain weakened or inactive parts of a particular organism (antigen) that triggers an immune response within the body. ■ Newer vaccines contain the blueprint for producing antigens rather than the antigen itself. ■ Regardless of whether the vaccine is made up of the antigen itself or the blueprint so that the body will produce the antigen, this weakened version will not cause the disease in the person receiving the vaccine, but it will prompt their immune system to respond much as it would have on its first reaction to the actual pathogen.



The key ingredient in a vaccine is the antigen. It's either a tiny part of the disease-causing organism, or a weakened, non-dangerous version, so your body can learn the specific way to fight it without getting sick.

### HERD IMMUNITY

When someone is vaccinated, they are very likely to be protected against the targeted disease. But not everyone can be vaccinated. People with underlying health conditions that weaken their immune systems (such as cancer or HIV) or who have severe allergies to some vaccine components may not be able to get vaccinated. These people can still be protected if they live in and amongst others who are vaccinated. When a lot of people in a community are vaccinated, the pathogen has a hard time circulating as most of the people it encounters are immune.



### HOW IT PROTECTS

■ The more people are vaccinated, less likely are those who are unable to be protected by vaccines to face a risk of pathogens. This is called herd immunity. ■ Some vaccines require multiple doses, given weeks or months apart. This is sometimes needed to allow for the production of long-lived antibodies and development of memory cells. In this way, the body is trained to fight the specific pathogen.



Text source and photos: WHO

# READY FOR A SCIENCE SHOT?

With the world hailing the Moderna vaccine that claims to be 94.5% effective on Covid patients, and Pfizer's jab claiming to be 90% effective, a look at how vaccines protect us from diseases...

## What are the ingredients in a vaccine?

Vaccines contain tiny fragments of the disease-causing organism or the blueprints for making the tiny fragments. They also contain ingredients to keep the vaccine safe and effective.

### ANTIGEN

All vaccines contain an active component (the antigen), which generates an immune response, or the blueprint for making the antigen. The antigen may be a small part of the disease-causing organism, or the whole in a weakened or inactive form.

### PRESERVATIVES

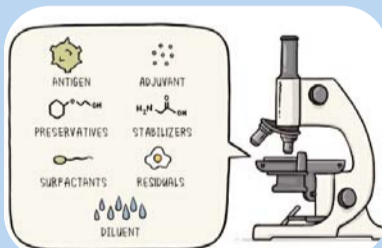
Preservatives prevent the vaccine from becoming contaminated once the vial has been opened, if it will be used for vaccinating more than one person. Not used for single dose vials.

### STABILIZERS

Stabilizers prevent chemical reactions from occurring within the vaccine and keep the components from sticking to the vial.

### SURFACTANTS

Surfactants keep all the ingredients in the



vaccine blended together. They prevent settling and clumping of elements.

### RESIDUALS

Residuals are substances used during manufacturing or production of vaccines that are not active ingredients in the completed vaccine.

### DILUENT

A diluent is a liquid used to dilute a vaccine, mostly sterile water.

### ADJUVANT

An adjuvant improves the immune response to the vaccine, sometimes by keeping the vaccine at the injection site for a little longer or by stimulating local immune cells.

## HOW ARE VACCINES DEVELOPED?

**M**ost vaccines have been in use for decades, with millions of people receiving them safely every year. As with all medicines, every vaccine must go through extensive and rigorous testing to ensure it is safe before it can be introduced in a country's vaccine programme. Each vaccine under development must first undergo screenings and evaluations to determine which antigen should be used to invoke an immune response. This preclinical phase is done without testing on humans. An experimental vaccine is first tested in animals to evaluate its safety and potential to prevent disease. If the vaccine triggers an immune response, it is then tested in human clinical trials in three phases.

### PHASE 1

The vaccine is given to a small number of volunteers to assess its safety, confirm it generates an immune response, and determine the right dosage. Generally, vaccines are tested in young, healthy adult volunteers.

### PHASE 2

The vaccine is then given to several hundred volunteers to further assess its safety and ability to generate an immune response. Participants in this phase have the same characteristics (such as age, sex) as the people for whom the vaccine is intended. There are usually multiple trials in this phase to evaluate various age groups and different formulations of the vaccine. A group that did not get



the vaccine is usually included in phase as a comparator group to determine whether the changes in the vaccinated group are attributed to the vaccine, or have happened by chance.

### PHASE 3

The vaccine is next given to thousands of volunteers - and compared to a similar group of people who didn't get the vaccine, but received a comparator

product - to determine if the vaccine is effective on a much larger group of people. Phase three trials are conducted across multiple countries and sites within a country to assure the findings of the vaccine performance apply to many different populations.

**When the results of trials are available, policies for vaccine are determined to optimise their impact.**

## Vaccine Race Among Nations

scientists, business, and global health organizations to speed up the pandemic response. When a safe and effective vaccine is found, it will facilitate the equitable access and distribution of these vaccines to protect people in all countries.

### WHAT IS COVAX?

COVAX, the vaccines pillar of the Access to COVID-19 Tools (ACT) Accelerator, is co-led by the Coalition for Epidemic Preparedness Innovations (CEPI), Gavi, the Vaccine Alliance, and the World Health Organization (WHO) - working in partnership with developed and

developing country vaccine manufacturers. It is the only global initiative that is working with governments and manufacturers to ensure COVID-19 vaccines are available worldwide.

- Inovio, USA (Phase I/II)
- Moderna, USA (Phase III)
- CureVac, Germany (Phase I)
- Institut Pasteur/ Merck/ Thémis, France/ US /Austria
- AstraZeneca/University of Oxford, UK and Northern Ireland
- Univ of Hong Kong, China
- Novavax, US (Phase I/II)
- Clover Biopharmaceuticals, China (Phase I)
- University of Queensland, Australia (Phase I)

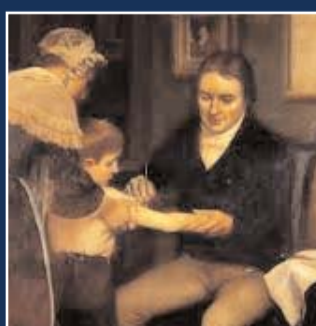


### MODERNA, PFIZER EFFECTIVE

■ Drugmaker Moderna announced its vaccine was 94.5% effective, joining Pfizer as a front-runner in the global race to contain Covid19. ■ Both companies plan to apply within weeks to the FDA for emergency authorisation to begin vaccinating the public. ■ Officials said others are also undergoing trials including efforts in Australia, Britain, China, India and Russia. ■ The FDA has said that coronavirus vaccines should be at least 50% effective to be approved. ■ Moderna said it would have 20 million doses ready by the end of 2020; Pfizer said it would have about 50 million by then. ■ Both vaccines require two shots.



**Edward Jenner is known to be the founder of vaccinology in the West in 1796, after he inoculated a 13 year-old-boy with vaccinia virus (cowpox), and demonstrated immunity to smallpox. In 1798, the first smallpox vaccine was developed.**





# 6 tips to become a celeb YouTuber

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Did you know that every minute, there are over 300 hours of video uploaded on YouTube? The mind blowing numbers don't stop there. YouTube has over 1.9 billion monthly active subscribers! It is an indication of how much work you need to put in to get yourself and your channel to stand out of the millions of others. Here are a few tips that could help you to break into the scene...

## CHOOSE A GENRE AND STICK TO IT

Zero down on a topic or subject of your choice - be it food, fashion, beauty, music - and make sure you are loyal to it as it is only a specific subject that will get you loyal followers. Be clear what exactly you want to do and then create your account. Generic content won't get you anywhere. For example, if you go to genre is street food, then that is what you should stick to. If you choose luxury dining as your subject and switch over to travel after a few months then it is unlikely to work.

1



## 2 BE VERY CONSISTENT WITH CONSISTENCY

Now this is the crucial part as consistency is the master key for success. Upload two videos at certain days and time every week. The timing is important and it creates anticipation in people who are following you. Create a structure, for instance, choose Wednesday 6 pm and Sunday 10 am, for uploading fresh videos. Keep your content ready and don't delay uploading.

## 3 POSITIVITY AND PATIENCE ARE NON NEGOTIABLE

Keep moving even if you don't get much traffic on your account or channel initially. It takes time to reach the top. Most importantly, ignore trolls and the negativity generated by them. There could be some nasty comments from people on social media who may be using abusive language; don't let them deter you; just focus on making quality content. Overall, be positive in life and also never troll people who you consider as competition.



## 6 BE ORIGINAL

Never ever copy content from other YouTubers. Your work should be original because firstly, you will not be respected if you copy others, and secondly, your content will not look fresh. You can learn a lot by watching other people's videos but never copy them. All successful YouTubers also do the same - they don't copy or plagiarise content.

## 4 WORK ON THE QUALITY OF YOUR CONTENT

Read up about your chosen topic and watch documentaries and videos on it to increase your knowledge about it. This way the quality of your content will be top notch. Hard work is important to reach somewhere in the online world because the competition here is stiff.

## 5 FOLLOW PEOPLE YOU ADMIRE IN YOUR CHOSEN GENRE

Do follow social media accounts and YouTube channels of people you admire. Don't copy their ideas though. Just see what they are doing - it will give you perspective and awareness about what's happening in your chosen field online.



## Top YouTube channels every student should watch

### Motivation2Study

If you think that you know how to be motivated properly, you'll find yourself wondering about how wrong you were. Motivation2Study is an incredible channel, which will inspire you to do better, be faster and stronger. Their series "Study Motivation" are a compilation of successful people's speeches, put together in an inspiring way, and that you, as a student, should listen to.



### EVAN'S 10 RULES

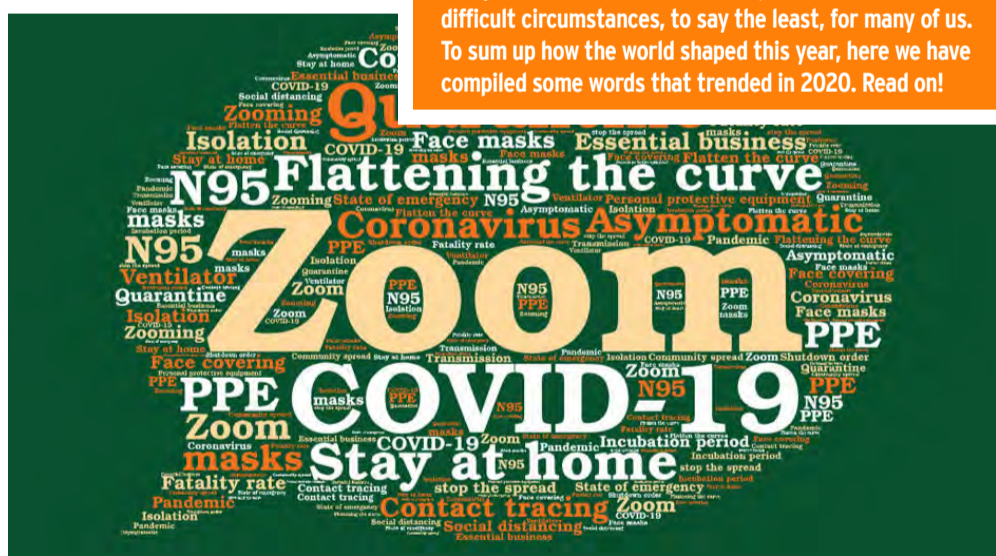


### Evan Carmichael

Evan Carmichael's YouTube channel is mostly known for its series: "Someone successful's Top Ten Rules", in which he analyses the speeches, presentations and talks of famous and successful people around the world to find out which useful rules they follow themselves. Being a student is not only about getting good grades, studying hard and being sleep-deprived, it is also about growing and creating a better and more inspired version of oneself. So why not take advice off the best and most successful people on the planet, such as Obama, Oprah Winfrey and Steve Jobs, and apply these tips and tricks to your own life? His videos range from 10-60 minutes and can be used as a motivational way to start your day.

## Words that trended in 2020

Words that people search for on the internet not only reveal about what's happening around us in the world, but they also reflect what matters the most to people. The year 2020 has been full of unprecedented and difficult circumstances, to say the least, for many of us. To sum up how the world shaped this year, here we have compiled some words that trended in 2020. Read on!



### PANDEMIC

The year 2020 has been an unprecedented one. Interestingly, the word 'Pandemic' is chosen as the Word of the Year by both Merriam-Webster Dictionary and Dictionary.com! Pandemic was also one of the two short-listed words of the year for 2020 by Cambridge Dictionary. It's noted that the World Health Organisation declared COVID-19 to be a pandemic officially on March 11, 2020, and since then the word has not only been in trend but has also become a part of our daily lives.

Donald Trump's impeachment began in January 2020 and so, the word 'Impeachment' also trended in January this year.

### ACQUITTAL

The word 'Acquittal' peaked in February 2020 "at the conclusion of Donald Trump's impeachment trial", according to Oxford Dictionary.

### COVID 19

In April, according to the Oxford Dictionary, the word 'COVID-19' was one of the top searched words of 2020. An abbreviation of Coronavirus, this was a completely new word which soon became common in usage.

### REOPENING

With some countries curbing their lockdown and reopening by the mid of the year, the word 'Reopening' trended in May 2020 as per Oxford Dictionary.

### CANCEL CULTURE

In July 2020, Oxford Dictionary notes, the word cancel culture trended. It is defined as "the culture of boycotting and withdrawing support from public figures whose words and actions are considered socially unacceptable."

### BIPOC

In July 2020, BIPOC "an abbreviation of black, indigenous, and other people of colour", also trended as per the Oxford Dictionary.

### BUSHFIRE

Instead of giving just one word of the year for 2020, the Oxford Dictionary shared a bunch of words "which reached their peak frequency of usage" during various months in 2020. 'Bushfire' was one such word for January 2020 because of the Australian bushfire season.

### IMPEACHMENT

The trial for US President



We give you a peek into what 2020 had in store for us across all fields! Watch this logo unit to follow our exclusive wrap up

## Repurpose your floral decorations

If you use floral decorations at home, don't throw them away just yet. Here's what you can do to repurpose the floral decorations to generate less waste.

### Make your own organic rangoli

If you have used marigold or rose flowers, dry the petals thoroughly. Once dried, add a pinch of turmeric powder to this to avoid insects or pests. Store in an airtight jar and use it as organic rangoli.

### Grow your own marigold

Flowers such as marigolds are a mine of seeds. Dry the flowers and pull out the petals gently. You will find seeds at the end of the petals. Separate them and use them to grow your own marigold plants at home.

### Go the composting way

Instead of throwing away all the flowers, add them to your composting bin and let it turn into manure. If you do not have a composting bin at home, put the flowers in a pot and mix it with a little mud. The flowers will decompose naturally.



### Make skincare products with flowers

Petals of flowers like jasmine, roses and calendula can be used in your skincare regime. Boil rose petals in water for four minutes. Pour the solution in a bottle and use as a face mist or as a face toner. Similarly, jasmine petals can be dried and mixed with face scrubs and masks to achieve radiant skin.

### Make your own potpourri

Another good way of using up the flowers and flower buds is by making your own potpourri. Dry the flowers that you wish to keep in your potpourri bowl. Once dried, mix them gently, add a few drops of essential oil, and place it in the corner of your room.

## WHERE IN 'VENICE'?

SURYAKUMARI DENNISON, teacher, Aavishkar Academy, Bengaluru

- A. Verona B. Padua
- C. Florence D. Bologna

5. Shylock once bought a diamond in -. A. Dresden B. Hanover C. Frankfurt D. Munich
6. Tubal brings news that Antonio's argosy was wrecked, returning from -. A. England B. Indies C. Mexico D. Tripolis

Answers:  
1) D. Montferrat 1) B. France  
3) A. Saxony 4) B. Padua  
5) C. Frankfurt 6) D. Tripolis



Complete each statement with the name of a place that is mentioned in Shakespeare's 'The Merchant of Venice'. Choose correctly from the four options.

1. Nerissa recalls Bassanio accompanying the Marquis of -. A. Mantua B. Marino C. Modena D. Montferrat
2. Monsieur Le Bon, who lacks originality, is from -. A. Austria B. France C. Portugal D. Spain
3. Portia's German suitor is related to the Duke of -. A. Saxony B. Hamburg C. Bavaria D. Thuringia
4. Balthazar is sent to Doctor Bellario, in -. A. Verona B. Padua C. Florence D. Bologna

## KNOWLEDGE BANK (FUN FACTS)



### Moon

The Moon is the Earth's only natural satellite. A natural satellite is a space body that orbits a planet, a planet like object or an asteroid. It is the fifth largest moon in the Solar System. After the Sun, the Moon is the second brightest regularly visible celestial object in the Earth's sky. The average distance from the Moon to the Earth is 384403 km. The Moon orbits the Earth every 27.3 days.





# 3 TALKING POINTS

As Virat Kohli and Co. took an unassailable lead in the ongoing T20I rubber against Australia on Sunday, here are the three talking points from Team India's historic series win over the hosts



Australian batsmen are still finding it difficult to read India's new white-ball sensation Thangarasu Natarajan

## 1 HARDIK'S BLITZKRIEGS

Embracing the finisher's role in the limited-overs format for India, Pandya played a pivotal role to make sure the visitors avenge their One Day International (ODI) series defeat by clinching the bilateral T20I series. Pandya failed to cash in on his start (16 off 15) in the first T20I before the premier batsman made amends in the 2nd T20I at Sydney. The 27-year-old pummeled the potent bowling attack of the Aussies into submission and guided India to a convincing win in the penultimate clash. The swashbuckling batsman played a marauding 42-run knock off 22 balls to receive the Man of the Match honour for his batting heroics in the 2nd T20I.

## 2 NATARAJAN'S RISE

"Special mention to Natarajan as well. I thought he should be the Man of the Match, because the bowlers struggled here and he had a really good game," Pandya said after India's win over Australia on Sunday. Such has been the impact of pace ace Natarajan, who is enjoying his purple patch in white-ball cricket for India after making his international debut in the ODI series of the tour Down Under. Dubbed as the 'Yorker Specialist', Natarajan bowled a dream spell (3/30) on his T20I debut to help India take a healthy lead in the series opener. The 'Chinnappampatti Express' then returned with economical figures to restrict the hosts from crossing the 200-run mark in the high-scoring thriller on Sunday. Natarajan is also the leading wicket-taker (5) in the ongoing T20I series between India and Australia.

## 3 CONCUSSION SUBSTITUTE AND INJURIES

There is no denying that the three-match series will be remembered for the controversial concussion substitution made by India in the first T20I at the Manuka Oval in Canberra. Almost the entire Australian contingent questioned whether Chahal was a 'like for like' concussion substitute for an injured Ravindra Jadeja. The Indian southpaw was hit by a Mitchell Starc bouncer, which paved the way for Chahal to make a memorable appearance as a concussion substitute. The three-match opera between India and Australia was also marred by injuries. While India were already without star batsman Rohit Sharma, Jadeja was also ruled out of the remaining two matches of the series with a concussion. Australia, who kickstarted the T20Is without southpaw David Warner, suffered a massive setback when limited overs skipper Aaron Finch picked up a hip injury while fielding for the Aussies in the 1st T20I. On compassionate grounds, Australian speed merchant Mitchell Starc opted to pull out of the T20I series due to a family illness.

## INDIA'S WINNING STREAK

Kohli's brigade has not only clinched the ongoing T20I series but India also extended its longest winning streak to 10 matches in the shortest format of the gentlemen's game. Only Australia (12), Afghanistan (11), and Papua New Guinea (11) have a better record than India when it comes to playing the most number of matches without a single defeat in the T20I format.

## Kaif wants Pandya to be added to the Indian squad for Aus Tests



Former India batsman Mohammad Kaif on Sunday said that in-form all-rounder Hardik Pandya should stay back in Australia for the upcoming Test series. Taking to Twitter Kaif wrote, "@hardikpandya7, with an average of nearly 90, has emerged as India's go to batsman in white-ball cricket, behind @imVkohli. Time is ripe for Hardik to be added to the Test squad, in this red hot form worth holding him back in Australia." India will play four Tests against Australia after the conclusion of the T20I series. India skipper Virat Kohli will be playing just one of the four Tests before heading home as he has been granted paternity leave by the BCCI. Rohit Sharma's availability for the Test series is also not clear as his fitness will be reassessed on December 11 at the National Cricket Academy. ANI

It is a different ball-game, I do not mind if they ask me to stay back for the Test matches, the call lies with the team management, I cannot say much about it.

Hardik Pandya

## ICC should look at employing neutral doctor to take concussion call



Mark Waugh

## Jehan Daruvala creates history, becomes first Indian to win an F2 race



FORMULA 1 vs FORMULA 2

In Formula 1 race, a variety of models take to the track. In Formula 2 racing, that's not quite the case, as every driver sits behind the wheel of a vehicle designed by Williams F1. Cars are completely identical and drivers are backed by the same race engineers to ensure that talent shines over the cars specs.

F2 cars are backed by a 500 horsepower engine, which is about half that of a Formula 1 vehicle. Max speeds are relatively similar, with F2 topping out about 30 kmh less than F1.

Photo: PTI

## TEST YOUR KNOWLEDGE

**Q1:** In the year 2009, to which club was Cristiano Ronaldo transferred at world record £80m?

- a) Manchester City  b) Real Madrid   
c) Juventus  d) Manchester United

**Q2:** In which year did Virat Kohli lead India to its second ICC U-19 World Cup?

- a) 2008  b) 2007  c) 2006  d) 2005

**Q3:** Ace Against Odds is the 2016 biography of which Indian professional tennis player?

- a) Pranjala Yadlapalli  b) Rutuja Bhosale   
c) Ankita Raina  d) Sania Mirza

**Q4:** Which Indian batsman equalled Gary Sobers' world record of six sixes in an over in a Ranji Trophy game in January 1985?

- a) Ravi Shastri  b) Sunil Gavaskar   
c) Kapil Dev  d) Sachin Tendulkar

**Q5:** Which Japanese player did PV Sindhu defeat in order to become world champion in 2019?

- a) Nozomi Okuhara  b) Mayu Matsumoto   
c) Sayaka Sato  d) Akane Yamaguchi

**Q6:** Which female tennis player has won 73 Career Singles Titles and 23 Career Doubles Titles?

- a) Serena Williams  b) Maria Sharapova

- c) Victoria Azarenka  d) Naomi Osaka

**Q7:** In the 2014 Champions League T20, Kane Williamson scored the fastest century in six seasons, with an unbeaten 101 off \_\_\_ deliveries.

- a) 55  b) 49  c) 70  d) 80



Kane Williamson

**Q8:** Where is the summer Olympics of 2028 scheduled to be held?

- a) Delhi  b) Los Angeles   
c) Tokyo  d) Moscow

**Q9:** Who is the only Indian women's cricket captain to have led the side to two 50-over World Cup finals?

- a) Jhulan Goswami  b) Smriti Mandhana   
c) Mithali Raj  d) Harmanpreet Kaur

**Q10:** In February 2019, which Indian female cricketer became the top-ranked batter in ODIs after amassing two tons and eight fifties from 15 innings?

- a) Deepti Sharma  b) Smriti Mandhana   
c) Mithali Raj  d) Harmanpreet Kaur

**Q11:** Gavaskar has a solitary wicket in Tests. Who is

his only victim?

- a) Majid Khan  b) Hanif Mohammad   
c) Saeed Anwar  d) Zaheer Abbas

**Q12:** In his last innings in Tests in 2007, Sanath Jayasuriya hit 6 fours. Who bowled the over?

- a) Neil Wagner  b) James Anderson   
c) Pat Cummins  d) Stuart Broad

**Q13:** Who is the current chief national coach for the Indian Badminton team. He also won the All England Open Badminton Championships in 2001?

- a) Syed Modi  b) Vimal Kumar   
c) Pullela Gopichand  d) Prakash Padukone

**ANSWERS:** 1- b) Real Madrid 2 a) 2008 3- d) Sania Mirza 4- a) Ravi Shastri 5- a) Nozomi Okuhara 6- a) Serena Williams 7- b) 49 8- b) Los Angeles 9 c) Mithali Raj 10- b) Smriti Mandhana 11- d) Zaheer Abbas 12- b) James Anderson 13- c) Pullela Gopichand