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The Day Break Weekly

SUNDAY: 03 October 2021

Vol: 3, Issue: 3

Need to vaccinate Again !



Hundreds of millions of Chinese jab recipients need to be vaccinated again. On Monday, the World Health Organization (WHO) recommended that people over age 60 get a third dose of vaccines from Chinese makers Sinovac and Sinopharm.

Simulate Life on Mars



From the door of the expedition base, a few small steps to the left an autonomous rover passes by. A few giant leaps to the right is an array of solar panels. The landscape is rocky, hilly, tinged with red.

Covid update in TN



Tamil Nadu recorded 1,303 fresh cases of Covid-19 Monday. The overall tally has now reached 26,79, 568 and with 13 deaths, the toll rose to 35,796.

Avesh Khan Reveals



Delhi Capitals fast bowler Avesh Khan left everyone impressed in the Indian Premier League 2021 with his wicket-taking abilities. The right-arm fast bowler is the 2nd highest wicket-taker in the tournament so far and is highly likely to retain his spot by the time tournament ends.

New Sedan Car confirmed



After the success of the Skoda Kushaq, Skoda Auto India has announced yet another product under the India 2.0 project. The Czech carmaker will now bring a brand new compact sedan in the A0 segment, called Skoda Slavia, for the Indian market.

World Bank congratulates India on Covid vaccination campaign



India's daily Covid-19 infections are on the decline and 15,981 new cases were reported on Saturday

World Bank president David Malpass on Saturday congratulated India on its successful vaccination campaign against the coronavirus disease (Covid-19) as he met Union health minister Mansukh Mandaviya in Washington. "President Malpass congratulated Minister Sitharaman on India's COVID-19 vaccination campaign and thanked Minister Sitharaman for India's international role in vaccine production and distribution," the World Bank said in a statement.

Last month, Union health minister Mansukh Mandaviya announced that India will resume the supply of Covid-19 vaccines abroad after suspending it for some time. India, the world's largest producer of vaccines overall, suspended exports of Covid-19 vaccines in April to focus on inoculating its own population following a sudden spike in infections.

Mandaviya on Saturday, said that India will cross the landmark of 1 billion Covid-19 vaccine doses next week. As many as "97.23 crore have been administered the first dose of Covid vaccine in the country" till Saturday evening, he said.

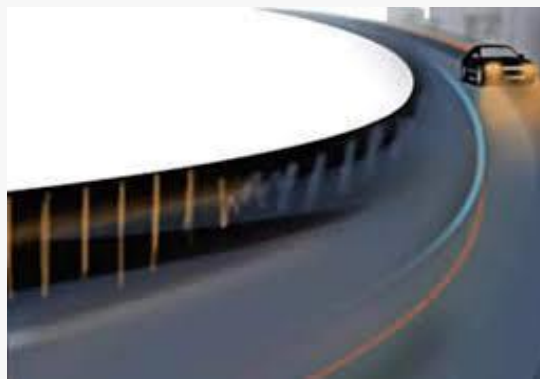
Govt asks power plants to blend 10% imported coal to step up supply

The government has asked thermal power units to restart the discontinued practice of blending 10% imported coal on concerns over depleting stock, while the coal and power ministries will explore ways to further enhance supplies, sources told ET after high-profile deliberations on Tuesday. Secretaries of coal and power ministries at a review told the Prime Minister's Office (PMO) that coal dispatches to power plants have exceeded daily consumption.

Both the ministries will also work on improving coal logistics, as Coal India has stocks of about 40 million tonnes at its mines. Sources said coal dispatches to thermal power plants rose to 1.95 million tonnes on October 11 against a consumption of 1.9 million tonnes. Dispatches are expected to increase to 2 million tonnes a day and the situation is expected to improve soon.

Chennai may soon get 7.6 km long sea bridge

CHENNAI: To reduce traffic congestion in north Chennai caused by movement of containers to port, the state government on Tuesday urged the Centre to build a 7.6kmlong sea bridge connecting Gate No.1 (Zero Gate) of Chennai Port and Manali Road-Tiruvottiyur junction. According to sources, the state has asked the NHAI to prepare a feasibility report for the project which may have a suspension superstructure for unimpeded movement of fishing vessels to the Kasimedu harbour. Highways minister E V Velu submitted the request to Union minister Nitin Gadkari in New Delhi on Tuesday.



A source said, "In his meeting with the PM in June, chief minister M K Stalin had urged him to consider the project. The state has also been following it up with the Centre through letters." "Traffic volume, particularly container traffic to Chennai Port has increased many fold over the last two decades.

How Water Disappeared on Mars? NASA's Perseverance Rover Reveals History of Water on Red Planet

NASA's Perseverance rover, currently exploring Jezero Crater on Mars, has shared new insights which reveal that the Red planet had sustained interactions with water, which disappeared later.

Perseverance rover was launched on July 30 last year and arrived at the red planet on February 18 after a 203-day journey traversing 472 million kilometres. The rover explored the floor of Jezero Crater, which was once a lake and a dried-out river delta at the crater's edge.

Based on the detailed images sent by the six-wheeler rover on Mars, a new study by the mission scientists has now published first scientific results about the Jezero Crater delta in the journal *Science*.

The findings are based on detailed imaging of long, steep slopes called escarpments, or scarps in the delta, which formed from sediment accumulating at the mouth of an ancient river that long ago fed the crater's lake. The images reveal that billions of years ago, when Mars had an atmosphere thick enough to support water flowing across its surface, Jezero's fan-shaped river delta experienced late-stage flooding events that carried rocks and debris into it from the highlands outside the crater, said the study.

Covid-19 vaccine for children

The expert group looking at vaccine approvals on Tuesday recommended that Bharat Biotech's indigenous Covid-19 vaccine Covaxin should be given emergency use authorisation for children in the age group of two to 18 years.

The recommendation is a step further towards launch of a Covid-19 vaccine for children ahead of the festival season and amid concerns over a possible third wave of infection. However, the final approval is yet to be given, which will be done by the Drugs Controller General of India (DCGI)

That step is expected to be completed within days, according to people aware of the matter.

Union minister of state for health and family welfare Bharati Pravin Pawar on Tuesday said that evaluation of Covid-19 vaccine for children is under progress. "The process is on and we don't interfere in this matter. Will go ahead after discussions with experts," the minister said.

Bharti's OneWeb partners ISRO's commercial arm to use PSLV, GSLV for satellite launch in India

NEW DELHI: Bharti backed OneWeb said that it has signed a pact with NewSpace India Limited (NSIL), the commercial arm of Indian Space Research Organisation (ISRO) to use Indian-built PSLV (Polar Satellite Launch Vehicle) and the heavier GSLV-MkIII (Geosynchronous Satellite Launch Vehicle) as potential platforms to launch OneWeb's satellites in India from 2022

'There won't be any shortage'

Union coal minister Prahlad Joshi on Tuesday said there has been no let-up in coal supply across India and assured there won't be any shortage amid concerns over power blackouts. Joshi's statement assumes significance in the wake of the country's power plants grappling with coal shortages at a time when the festival season has already begun. Several states, including Delhi, Tamil Nadu and Karnataka, have red-flagged the issue and warned of power blackouts in the coming days.

Ireland's Amy Hunter becomes world's youngest ODI centurion

Ireland's Amy Hunter on Monday became the youngest player to score an ODI century, striking an unbeaten 121 to take her side to a win against Zimbabwe on her 16th birthday bettering the record previously held by India's Mithali Raj.

The school girl from Belfast overtook the record previously held by India's Mithali Raj, who scored 114 not out against Ireland at the age of 16 years and 205 days in June 1999.



Japan ends Australia's win streak in World Cup

Australia was awarded a penalty kick midway through the second half when Hidemasa Morita brought down Hrustic on the edge of the area. But before Martin Boyle could take the kick, referee Abdulrahman Al-Jassim of Qatar reversed the call after a video review, ruling that the challenge had taken place just outside the box.

Japan is seeking a seventh straight World Cup appearance. Australia has appeared at every World Cup since 2006.

"It was a great win for us but there are still a lot of difficult games to come," Moriyasu said. "We have to make sure we build on this win."



COVID- 19 UPDATES

Covaxin gets emergency use approval for kids aged 2-18 years

The Subject Expert Committee (SEC) on Covid-19 has granted emergency use approval to Bharat Biotech's Covaxin for children in the 2-18 years age group.

Hyderabad-based Bharat Biotech had completed Phase-2 and Phase-3 trials of Covaxin on children below 18 years of age in September and submitted the trial data to the Druga and Comptroller general of India (DCGI) at the start of this month.

The made- in- India vaccine will be administered in two doses, with a gap of 20 days between the first and second dose.

India's daily Covid-19 cases stay below 20,000 for a week

India on Thursday reported 18,987 Covid cases, 20% higher than yesterday. With 19,808 recoveries in the last 24 hours, the cumulative recoveries climbed to 3,33,62,709. Currently, India has 2,06,586 active cases of Covid-19.



COVAXIN® - India's First Indigenous COVID-19 Vaccine



COVAXIN®, India's indigenous COVID-19 vaccine by Bharat Biotech is developed in collaboration with the Indian Council of Medical Research (ICMR) - National Institute of Virology (NIV).

The indigenous, inactivated vaccine is developed and manufactured in Bharat Biotech's BSL-3 (Bio-Safety Level 3) high containment facility.

The vaccine is developed using Whole-Virion Inactivated Vero Cell derived platform technology. Inactivated vaccines do not replicate and are therefore unlikely to revert and cause pathological effects. They contain dead virus, incapable of infecting people but still able to instruct the immune system to mount a defensive reaction against an infection.

In A Rocky Israeli Crater, Scientists Simulate Life on Mars

A number of recent Mars probes have captivated astronomy fans across the world with robotic rovers like NASA's Perseverance and, for the first time, the helicopter Ingenuity, offering a glance of the planet's surface. But a manned mission is likely more than a decade off.

With AMADEE-20, which was supposed to happen in 2020 but was postponed due to COVID-19, the team hopes to bring new insight that will help prepare for that mission, when it comes.

The six team members are constantly on camera, their vital signs monitored, their movements inside are tracked to analyse favourite spots for congregating. All this to better understand the human factor, Gromer said.

Altogether they will carry out more than 20 experiments in fields including geology, biology and medicine and hope to publish some of the results when finished.

Unique Radio waves Coming from Unknown Space Object

Researchers from the University of Sydney in Australia recently detected mysterious radio waves from space having a completely unknown origin, expressing complete puzzlement over the nature of the energy that is being emanated. They are coming from a region in the very center of our own Milky Way galaxy.



Some are speculating that there could be no other explanation than that a type of life form is purposely emitting these radio waves out into space. But no astronomers anywhere on Earth know at present what is responsible for their creation. What they do know is that they are not coming from a star or a planet, but from a new kind of celestial object.

At first, they thought it could be a kind of pulsar, which is a spinning dead star; alternately they thought it might be a type of star that emits solar flares. However, the signals they observed match nothing else known to mankind. Over the course of nine months in 2020, the scientists received a total of at least six signals of the radio waves from space via SCIRO's ASKAP radio telescope, located in New South Wales, Australia.

THE NASA APP

The NASA app provides comprehensive information, photos, videos and much more to satisfy your curiosity about space, solar system, Earth and other topics.

Space has been fascinating stargazers for centuries. And while the space agencies, such as NASA, have made it easier for interested people to get all the latest updates and explore space, the solar system, Earth and worlds beyond with ease, getting the latest information isn't as simple as clicking a button. To simplify this process, NASA has an app for smartphones, tablets and digital media players.

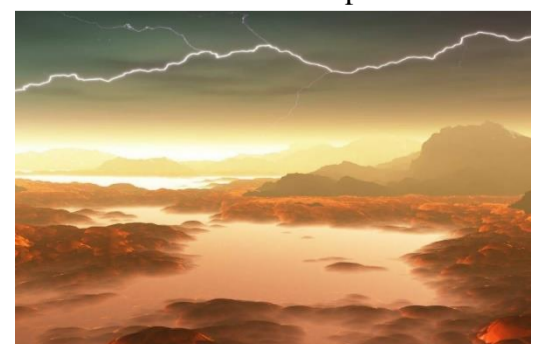
The app called the NASA App showcases a huge collection of the latest NASA content, including over 18,000 images, videos on-demand, NASA Television, Solar System Exploration feature, podcasts, news and feature stories, ISS sighting opportunities and tracking, mission information, Third Rock Radio and much more from the US' space agency.

Scientists discover that Venus has never had habitable oceans

Venus could be the twin of the Earth, since in terms of weight, size and structure it is almost identical to our planet. But she is much closer to the Sun, and this decided her fate. Extreme temperature and pressure on the surface of Venus do not even come close to talking about the possibility of terrestrial life in such conditions.

With the Earth, everything is more or less clear, but for Venus it turned out that in its conditions, water vapor in the atmosphere could never condense and fall on the planet as rain. Moisture has always remained in the air, which was facilitated by atmospheric processes during the evolution of Venus.

The reason for this behavior of the atmosphere is the proximity of the Sun and the phenomena in the air caused by this proximity. In particular, clouds on Venus formed on the night side and created a powerful greenhouse effect, which never allowed the planet to cool down enough for the formation of condensation in the atmosphere.



Fun time

Word search!

Spelling List 7 - Word Search



brown	bow	hours
house	growth	our
blouse	flower	tower
how	flour	shower
plowed	crow	following
crowded	blowing	ownership
loud	flowing	encourage

Riddles!

1. What has hands and a face, but can't hold anything or smile?
2. What's the capital of France?

Jumbled words!

1. arpyt
2. leisnt
3. ocol
4. dahe hpnoe
5. ontshe
6. pskere
7. oglecle

Math magic!

1.81 x 9 = 801. What do you need to do to make this equation true?

General knowledge!



Blue planet (EARTH) receives first radio signals from planet outside of Solar System the signals were picked up using the world's most powerful radio antenna, the Low-Frequency Array.

Now answer this:-

- Why it is called blue planet?
- A) Because of water sources
 - B) Because of sky
 - C) Because of trees
 - D) Because of buildings

Facts!

Sound waves need air to travel, so there are no sound in space.

Electricity travels through wires 100 times slower than the speed of light.

If you cut a magnet in half you get 2 smaller magnets each with their own North Pole and South Pole.

When you rub your hands together, it's friction that causes them to get warm.

Without energy our world would be freezing, cold, dark, silent and lifeless.

Did you know?

1. Garlic bulbs are full of Vitamin C, iron, potassium, magnesium, zinc and more. It also has 17 amino acids.
2. The strawberry is the only fruit that bears seeds on the outside.
3. The double coconut palm produced the biggest seed in the world: 45 pounds.
4. Peanuts aren't nuts! (They're legumes).
5. Carrots weren't always orange: they were once exclusively purple.
6. Pound cake is so-called because the recipes once called for a pound of butter, a pound of sugar, a pound of eggs and a pound of flour.

DID YOU KNOW



A fact train trip to taj mahal!



It is built as a mausoleum for his beloved wife, Arjuman banu begum.

It is built between 1631-1648

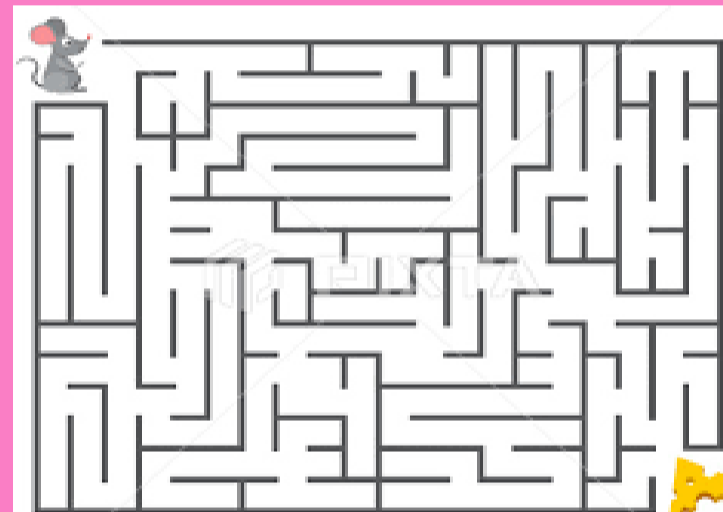
It is located in Agra, India

Interesting Facts

- The central dome is 187 feet high in the middle
- The material was brought in all over central Asia with the help of 1000 elephants
- They used 28 different types of stones

Maze!

Rat- "Please find my cheese"



Dear Readers,

You can fill your weekly newspaper with your own creativeness. Articles, Poems, Short Stories, jokes, Riddles, Sketches, etc., are make your newspaper interesting. Answers to the Puzzles, GK and feedback may also send to the Chief Editor with your name, Class and section. Kindly send your articles to in to (kymbkdaybreakweekly@gmail.com) in docx/JPG formats (CLICK THE ID TO SEND)

Thank you

Last week's answer!

Riddle- 1. Someone's heart 2. Time

Jumbled words- 1. News 2. Monkey 3.data 4. Screen 5. Memory 6. Acid 7. Games 8. Family

GK- 1 artery 2. Ganga River

ARTIVITY



M Rithika -8C



adarshree shau-7C



Sri Meenakshi-8C



S Dinesh Kumar-8C



Samiksha P 6C

DUSSEHRA SPECIAL



Dussehra (Vijayadashami, Durgotsav) is a Hindu festival that marks the culmination of a 9 day period of festivities called navratri (nine nights), with Dussehra being the 10th. Generally speaking, Dussehra is a celebration of the triumph of good over evil but is also the beginning of the harvest season in India and so people invoke the Mother Goddess to watch over the new harvest season and rejuvenate the fertility of the soil. This festival is celebrated in all regions of India but different communities choose to observe it in different ways. The dates of this festival are determined according to the lunar calendar and hence it falls on a different date of the Gregorian calendar every year. Ancient Hindu mythology extensively deals with the struggle between good and evil, that is the struggle between the asuras (demons) and devas (gods). The navratri

story is of one such asura called Mahishasura, who invaded heaven defeating Indra and driving the devas out of heaven. The gods decided to combine all their powers to create a powerful being that would be able to destroy Mahishasura. The powerful being they created was called Durga and they bestowed upon her their super-weapons. Navratri is said to be the 9 days of battle between Durga and Mahishasura where the goddess finally destroyed the daemon on the 10th day. It is also believed that on this day Ram, along with Hanuman and an army of vanaras (monkey-like humanoids) defeated the daemon Ravana. They waged this battle in order to rescue Ram's wife Sita, whom the evil rakshasa had cunningly kidnapped and imprisoned in his palace on the island fortress of Lanka.

WORLD DAY FOR POVERTY ERADICATION

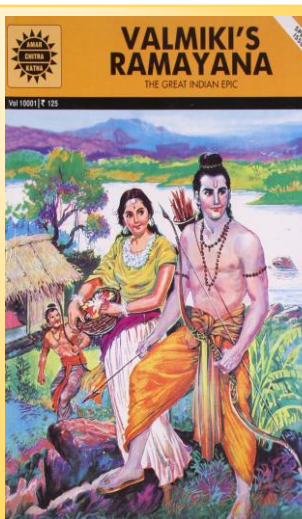
INTERNATIONAL
DAY FOR THE
ERADICATION
OF POVERTY
17 OCTOBER



The observance of the International Day for the Eradication of Poverty can be traced back to 17 October 1987. On that day, over a hundred thousand people gathered at the Trocadéro in Paris, where the Universal Declaration of Human Rights was signed in 1948, to honour the victims of extreme poverty, violence and hunger. They proclaimed that poverty is a violation of human rights and affirmed the need to come together to ensure that these rights are respected. Since then, people of all backgrounds, beliefs and social origins have gathered every year on October 17th to renew their commitment and show their solidarity with the poor. Through resolution 47/196 (link is external) adopted on 22 December 1992, the UN General Assembly declared 17 October as the

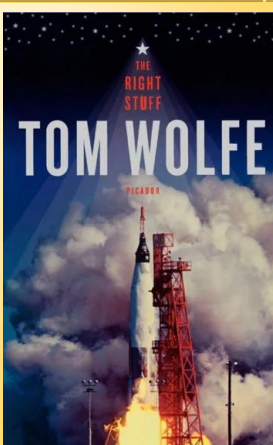
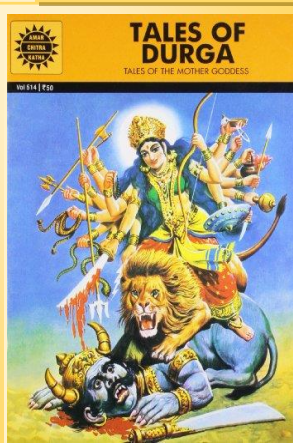
International Day for the Eradication of Poverty. UNESCO is convinced that the sustainable fight against poverty requires the strengthening of individuals' capacities through education, science and support for a creative economy, which are sources of employment as well as of pride and dignity. UNESCO puts all its expertise at the service of the 2030 Agenda for Sustainable Development, and in particular Goal 1 "End poverty in all its forms everywhere". Ending poverty is not just helping the poor – it is giving every woman and man the chance to live with dignity. By eradicating poverty, all humanity will be transformed. Wherever men and women are condemned to live in extreme poverty, human rights are violated. To come together to ensure that these rights be respected is our solemn duty.

READER'S PARADISE



Valmiki Ramayana is an ancient epic of India, highly valued for its contribution to human values since centuries and has universal relevance. It consists of 24000 verses in seven Kandas, namely Bala Kanda, Ayodhya Kanda, Aranya Kanda, Kishkindha Kanda, Sundara Kanda, Yuddha Kanda followed by Uttara Kanda.

Tales of Durga presents stories from Hindu mythology from the house of Amar Chitra Katha. Devi, Shakti, Durga. She is the air, the water, the soil of the Earth. She was there at the creation, and she witnesses the ultimate destruction as well. The mother goddess is one of the most important facets of Hindu mythology.



The right stuff is a 1979 book by Tom Wolfe about the pilots engaged in U.S. postwar research with experimental rocket-powered, high-speed aircraft as well as documenting the stories of first project mercury astronauts selected for the NASA space program.

SOLAR STORM HITS EARTH, BRINGING NORTHERN LIGHTS TO NEW YORK



A solar storm hit Earth and brought with it a spectacular light show visible as far south as New York. A massive solar flare, or coronal mass ejection (CME), was spotted on the sun Saturday (Oct. 9) on its Earth-facing side and the flare hit our planet yesterday (Oct. 11). This event comes as Earth enters a period of heightened solar activity known as the solar maximum (solar activity increases and decreases about every 11 years.) The National Oceanic and Atmospheric Administration (NOAA) warned that the storm would be a category G2 event, which is moderately strong. Solar storms of this magnitude can affect satellites in orbit around Earth, cause disruptions in power grids and more. But they can also spark a magnificent aurora, a natural light show that's typically only seen in

high-latitude regions near the north or south poles. But this storm was so powerful that it was visible as far south as New York and as far across the United States as Wisconsin and Washington state. NOAA put out a geomagnetic storm watch for Oct. 11 that was extended into Tuesday (Oct. 12). On Monday NOAA warned that satellite orientation irregularities, power grid fluctuations and more could occur as a result of the moderate storm. On Tuesday those impacts were reduced to primarily possible fluctuations in wear power grids. As the storm's effects linger, auroras may still be visible Tuesday night at high latitudes, in locations like Canada and Alaska, according to NOAA. But sky watchers in other locations who were lucky enough yesterday could have gotten an eyeful in locations like New York where auroras are very rarely visible at all. When this plasma hits our planet's shield, the charged particles move toward Earth's poles releasing energy as colorful light: this is how auroras happen.

KNOWING YOUR PUBLISHING TEAM



Dhiyaneshwaar S G from Class VII A is the sub editor of science. His hobbies are coding, reading books, playing cricket, learning new programs like python or Java and Drawing. He loves to interact with people and gather as much things related to software development.

He loves taking up challenges and learning new things, which is why he wanted to use the opportunity to be a part of the newsletter. He was also curious to see how all of this process works. As he likes gaining knowledge about technology, he also chose to be a member in publication team. He says, "I am grateful and I feel blessed to be a part in sharing my side of help and support towards the weekly newspaper."