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STUDENT EDITION
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WEB EDITION

MOON MAY BE RUSTING

While Mars has long been known for its rust due to iron, water, and oxygen on its surface, scientists were recently surprised to find evidence that the airless Moon has rust on it as well. The images sent by ISRO's Chandrayaan 1 orbiter — India's first mission to the Moon, show that the Moon may be rusting along the poles.



This is a surprising discovery, since rust, which is also known as iron oxide, is a reddish compound that forms when the iron is exposed to water and oxygen; the Moon's surface is not known for the presence of water and oxygen

1 According to NASA, this could be because of the Earth, which is driving the formation of hematite, a form of rust that normally requires oxygen and water

2 The terrestrial oxygen provided by the Earth, travels to the Moon along an elongated extension of the planet's magnetic field, called 'magnetotail', they assume

3 Scientists say the Earth's magnetotail can reach all the way to the near side of the Moon, where more of the hematite are found. Interestingly, during every full moon, the magnetotail blocks 99 per cent of solar wind from blasting the Moon, thereby drawing a temporary curtain over the lunar surface, allowing periods of time for the rust to form.

WHY IS IT SO

4 As far as water is concerned, which is one of the other ingredients that's needed for rust to form, scientists say, the Moon is mostly devoid of water, except for the frozen water found in the lunar craters on the Moon's far side — far from where most of the hematite was found. However, the fast-moving dust particles that bombard the Moon may be freeing water molecules locked into the Moon's surface layer, allowing the water to mix with the iron, they presume. In fact, these dust particles are likely to be the carriers of the water molecules, they add

5 However, scientists have reiterated that these are still hypotheses, and more data is needed to understand exactly why the



DID YOU KNOW? Rust is the result of a common chemical reaction for nails, gates, the Grand Canyon's red rocks — and even Mars. In fact, the Red Planet is nicknamed after its reddish hue that comes from the rust it acquired long ago, when iron on its surface combined with oxygen and water

Moon is rusting. Even more surprising, small amounts of hematite have been found on the far side of the Moon, which should be too far for the Earth's oxygen, to hitch a ride on the planet's magnetotail

Extreme heat made August the fourth-warmest on record

August 2020 will go down as the fourth-warmest on record worldwide, with above average summertime heat in the US and Mexico tempered slightly by below average temperatures, in parts of the Southern Hemisphere. Global temperatures for the month spiked around 0.9 degrees Celsius above the historical average, according to a new report by Europe's Copernicus Climate Change Service.



ENVIRONMENT

➤ Thanks to the steep rise in the temperatures recorded over the past few months, 2020 is all set to become the second-hottest, or possibly the hottest year on record. Record-breaking highs have been registered around the world, including an August 17 reading of 54.4 Celsius in the Death Valley, California, which could be the highest temperature ever-recorded

➤ Heatwaves brought higher-than-average temperatures to western and central Europe in August, while the number of days with heat stress falling in the "very strong" category was similar to last summer. Northwestern Siberia and much of the Arctic Ocean also experienced above average heat

➤ Extreme heat has also fuelled the worst wildfire season in the Arctic, making 2020 the second consecutive year to set a new record. California is witnessing widespread wildfire activity, with the second and third worst fires in the state's history recorded this year



September is being celebrated as national nutrition month. We at Times NIE will serve you with good 'nutritious' stories, tips, quiz, and much more.. on the importance to eat healthy food... WATCH THIS SPACE !!!

Be a part of this celebration. Send your ideas, slogans, posters, or anything that can drive this campaign at toinie175@gmail.com

CELEB TALK

NEED TO CREATE GENDER NEUTRAL ENVIRONMENT AT HOME: PANKAJ TRIPATHI

Acclaimed actor Pankaj Tripathi says, be it son or daughter, parents should allow their children to be independent. "Centuries of conditioning and gender blocks can be defeated, only if we consciously create a neutral environment at home. Be it for your son or daughter, I urge parents to allow their children to be independent," said Tripathi



Children should take charge of their lives, and even as we are available to guide them at every step, we shouldn't overshadow their life with the baggage of our experiences and opinions. If we instill the confidence in children to be their own decision makers, they'll be far more responsible

MARVEL'S AVENGERS GAME LANDS ON XBOX, PLAYSTATION & STADIA



Marvel's Avengers by Square Enix has been officially released with some editions on PC, Xbox, PlayStation, and Google's Stadia cloud-gaming platform. Marvel's Avengers has a single-player story mode, but the game is meant to be played online with friends and the community.

➤ Square Enix has been building up excitement for its Avengers game for over a year now, and the title has been highly-anticipated by fans as one of 2020's biggest games

➤ A key difference between Stadia and other platforms that have early access is the lack of requirement to buy the game via pre-order. Early access also comes with the Marvel Legacy outfits

➤ Stadia Pro members received five new games for free

➤ These new games are Strange Brigade, Kona, Metro 2033 Redux, Just Shapes And Beats as well as Rock of Ages 3: Make And Break

NEWS IN BRIEF



Which actor is directing the upcoming movie, 'Aparajitha Ayodhya'?

CLUE 1: The 33-year-old was born in Bhambla in Himachal Pradesh's Mandi district

CLUE 2: She's one of the three actresses to win back-to-back national award for Best Actress in 2015 and 2016, along with Shabana Azmi and Archana

CLUE 3: The 2006 thriller, 'Gangster' marked her Bollywood debut

ANSWER: KANGANA RANAUT. The Centre has sanctioned 'Y-plus' security cover (with 11 CRPF men in security duty) for the actor based on a review of her threat perception

NOVAK DJOKOVIC



IN THE SPOTLIGHT

The in-form World No. 1 Novak Djokovic was defaulted from the US Open, after he hit a lineswoman with a ball in frustration that hit her neck. According to the Grand Slam rules, a 'default' is a rare punishment handed out to the players, and can be done because of either a single deed, or through a collection of warnings (a fourth warning in the same match results in a default) that include verbal, ball, racket abuse, unsportsman-like conduct, and other offences.

THE IMPACT: As he was defaulted, Djokovic will now lose all the ranking points earned at the US Open, and will be fined the prize money won at the tournament, in addition to any or all fines levied with respect to the offending incident.

- In a 2017 Davis Cup match in Ottawa, Denis Shapovalov, whacked a ball in anger that struck chair umpire, Arnaud Gabas in the eye and left his vision temporarily damaged
- In the 2012 final of the Queen's Club tournament in London, Argentine David Nalbandian kicked a wooden box that hit a linesman and injured him
- At the 1990 Australian Open, John McEnroe was defaulted from his fourth-round match for profane verbal abuse of the standing officials

TIGER SHROFF MAKES SINGING DEBUT WITH 'UNBELIEVABLE'

Actor Tiger Shroff has announced his debut as a singer with an upcoming song, 'Unbelievable'. The 'War' star took to Instagram to unveil the motion poster (a high resolution animation of an original film poster). Tiger wrote, "Always wanted to sing and dance to my own song, but never had the

ENTERTAINMENT

courage to take it forward. Spent a lot of time exploring and working this lockdown, and discovered something new." The motion poster features the 'Baaghi 3' star holding a mic as he takes the limelight, while sporting a formal look. The song, 'Unbelievable' was conceptualised by Shroff during the lockdown.



BE AN ENVIRONMENTALLY-CONSCIOUS PET OWNER

HERE'S WHAT YOU CAN DO

With the increasing environmental concerns, it has become imperative to make conscious choices in our day-to-day lives. While we ensure that we switch off the lights when not needed, turn off the tap after use, buy local, say no to plastic, and plant more trees to decrease the carbon footprints, many of us really don't pay attention to becoming ecologically-responsible pet parents. Yes, you heard it right. Your furry babies' food, toys, grooming products also have an ecological impact. Here's how you can make a difference to the environment by choosing the right and sustainable products for your pets, and the activities you plan for them...

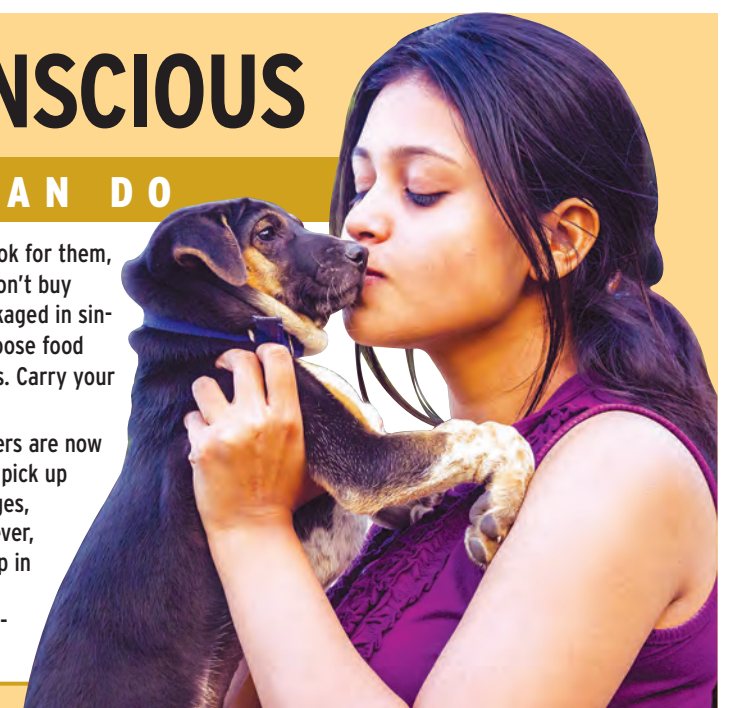
DONATE old toys of your pets to a pet shelter, and reuse toys of your friends' or relatives' pets. Buy preferably wooden toys instead of plastic ones, as the latter are harmful to the environment. Find groups on Facebook, where pet parents barter toys, beds, bowls, etc

WALK: Don't drive your pets to the park, instead walk down to the nearest one with your pet in tow. This way you can help cut down the carbon footprint to a great extent

FEED THEM HOMEMADE FOOD: Whenever possible, feed your pet homemade food as opposed to ready-made food. If it is not

feasible for you to cook for them, make sure that you don't buy supplies that are packaged in single-use plastic. Buy loose food from wholesale stores. Carry your own containers.

POOP BAGS: Pet owners are now aware that they must pick up after their furry charges, while on a walk. However, instead of picking it up in plastic bags, look for biodegradable or recyclable alternatives





MASTER THE ART OF WRITING

Nitya.shukla@timesgroup.com

Bestselling author **Ravinder Singh** is back with 'You Are All I Need', a unique crowd-sourced anthology on September 28. Offering upcoming writers, the rare opportunity to get published, the author mentored 25 writers for this collection which features heart-warming romantic short stories. Here are his tips on how you too can write a story and get published!

When writing a short story, remember this: A short story has hardly 2000 to 4000 words and in those many

words, how do you introduce your characters or plot? Your 'real estate' is around 6-7 pages, and in that you must capture someone's imagination. So, it is important, how you begin the story and how you end it. The reader should not feel like skipping even a page.

It is important how you begin the story and how you end it. The reader should not feel like skipping even a page!

For me, story-telling is more powerful than the story itself

Tell me a story: What'll make your submission stand out

For me, storytelling is more powerful than the story. You can make a mundane, boring story into something extremely interesting just because you choose to tell it in a certain style. For example, look at Ramayana and Mahabharata. There are numerous channels with shows based on



them out there. The story remains the same, but how you project it is all about the storytelling. Weightage-wise, it would be 51 per cent to storytelling and 49 per cent to the story.

To ace a writing competition, know where you stand

Writing for a competition is different from writing for your self. Say for instance, if you are going to win a race, you need to see what is the world record that has been set. If I am running for the Olympics, and I

say I don't care about the participants or the record, it doesn't work. If you're applying for competition, you must be aware of where the level is at.

We noticed that on one of your websites, www.blackinkbooks.in, you have asked for submissions from budding writers. Are there any specifications? Age/genre doesn't matter. As long as it is a novel that they want to write.

SEPTEMBER QUIZ

Did you know...

SURYAKUMARI DENNISON, teacher, Aavishkar Academy, Bengaluru

September (from Latin 'septem' for 'seven') was the seventh month of the year, when the Roman calendar had only 10 months. Answer each of these questions on September by choosing correctly from the four options.

- Which month, unlike September, does not have 30 days?
A. February B. April
C. June D. November
- Which Kerala festival would you associate with a September celebration?
A. Vishu B. Thiruvathira
C. Painkuni D. Onam
- Which Indian leader's birthday, on September 5, is Teachers' Day?
A. 1st Prime Minister
B. 1st President
- On September 11 of which year was the New York World Trade Center attacked?
A. 2011 B. 2001
C. 1991 D. 1981
- As what United Nations World Day is September 27 observed?
A. Environment B. Population C. Tourism D. Wildlife

Answers: 1) A February 2) D Onam 3) D 2nd President 4) B 2001 5) C Tourism



WHAT ELVES!



George was a boy who lived in a small, cosy, comfortable home. He loved his garden. His garden had neem trees and the air smelled sweet because of the combination of the velvet, pink, red roses and an apple tree in the middle of his garden. The apple tree was his favourite spot. He would climb up the tree and watch the day go by. The sunset view from there was worth it. One day, while George was perched on the apple tree, enjoying apples, he heard his mother call out for him, "George! Come on now. It's snack time." He climbed down and walked towards the dining hall. His mother gave him some pie which was delicious! He finished his meal and went to the bedroom. Soon enough, he dozed off. George had a dream that afternoon. In his dream, he saw pink dense fog. Excited, he went through it and saw an old little man sitting there. The old man said, "How did you come here? How?" George was surprised at first and said, "I myself don't know how I came here! I don't even know what this place is. I just passed through the fog and here I am." Then the little man went away shouting - "Oh! A human, a human in our world! Oh!"

When the little man was gone, George started exploring this new place. All he could see was air that was pink! As he was wondering, the fog suddenly disappeared. He found himself in a dense forest. There were two little birds singing but it almost sounded like they were talking to each other. "Hey Joanna, I wonder if that is a human," one bird told the other

Imagine a place with pink air! Also imagine that you go through the fog and find yourself in another world with strange creatures. That happened to George...

whose name was Molly. Now George was really scared of this weird place. He ran away from there and reached a river. Thirsty George had some water from it. It is then that he saw - ELVES! All around him. Tiny, cute creatures looking at him in dismay! But they were scared of George. One of them said: "We have been ill-treated all our life by humans. That's why we built this foggy place!"

Sadly, the dream and my story ends here.

AYESHA SIDDIQUA, class VII

JOSEPH V/S THE DRAGON

ONCE a boy named Joseph was riding his bike to the small village nearby his home. According to folklore, there was an invisible dragon that would roam the village in the night when everyone had slept off. The dragon would make a big radar and anyone who entered that in the last three hours would be sent to hell. There he would serve as a servant of the mega drag-

A MEETING WITH EXTINCT ANIMALS

Yesterday, in between my online classes I had a time travel! I got transported to Jim Corbett National park. I explored new things and also learnt about extinct animals. Afterwards, when I returned to my hotel room, I found a key on the floor. The moment I picked up the key, a door appeared in front of me. As I opened the door it was very dark but when I got through it, I saw many extinct animals inside the room. It was very surprising. The first creature I met was the Woolly Rhino. But as it saw me it became very angry and tried to kill me. It shouted, "a human has arrived, he has come here to kill us again". I managed to save myself from the attack and as-



sured him that I have come here to request the King of Extinct Animals to send all extinct animals back to the Earth because we humans have realised that every animal is important.

Hearing this, Woolly Rhino became very happy and was excited to go back to Earth again. Then, we both went ahead to meet the king. On the way, we met Dodo (the bird). As soon as it saw me, it got so afraid it yelled, "go away, go away". The Woolly Rhino called her and said, "calm down Dodo. He has come here to take us back again on planet Earth". "I don't want to go. They would kill us again and destroy our habitat. They all create so much pollution," said Dodo. "Listen Dodo" said Woolly Rhino Human beings have realised their mistake and our importance". The King was to hear this and gave all the extinct animals the permission to go back to Earth, and also threw a farewell party for all.

BIKRAMJIT SINGH, class III, Shadley Public School, New Delhi

TANYA THE FIGHTER

Tanya had just finished her invention, the bombardier beetle gun 5000! You just had to pour some liquid in the tank and shoot. It shot to a distance of 10 meters. She packed it along with a tin of pepper and soapy water in her backpack for her family trip. Then she added a blanket on top and dumped in a load of snacks her mom had given her. She then slid into the back seat of the car. After an hour they reached the skiing resort. Tanya immediately took her backpack and zoomed off. After an hour, she heard a rumble. Turning around she saw an avalanche. She began skiing and after a quarter of an hour, she saw a tree and quickly climbed it. She realised she was far away from the resort. She decided to spend the night in a cave and make a plan in the morning. Soon she spotted a suitable cave, went in and curling up in a corner, dozed off. After a few hours she woke up because she heard growling. When she opened her eyes, she saw a leopard. Tanya was in a leopard's cave! Trying to remain calm, she reached for her gun but it was of no use. So she recalled a woman who sang opera to scare away a lynx and it had worked. So she sang as loudly as she could in a horrible voice and the beast backed away. She put on her skis and zoomed past the scared leopard.

I invented my own bombardier beetle gun with pepper. When I had gone skiing, there was an avalanche and I got stuck in a cave. Luckily, I escaped being hunted by a leopard and some thieves

ard. Soon she found a new cave. She snuck inside and saw a wanted gang of burglars. And in the middle of the cave were the famous stolen Vauxhall diamonds! She tried to escape but they caught her. She took the bombardier beetle gun 5000 and loaded it with peppered lemonade. She then sprayed the pepper. Everyone shrieked and huge confusion ensued. In a minute, she tied everyone up with a rope and the gang ran away.

AVANTI VETE, class IX, DPS

Thank you

For your Adventure Story entries

PART 1

On. But Joseph was different. He was a daredevil who had magical powers. When he reached the village, Joseph could sense the presence of the dragon. He knew there was something evil in the village. Joseph called upon his team who fought the dragon and rescued all the helpless individuals who were locked up in the hell by the dragon earlier. The villagers were very happy with this.

DAIVIK S PATEL, class VI, Siddhath's

Miracles School, Gujarat



KNOWLEDGE BANK

Fossa

Fossa is a carnivorous animal found in Madagascar.



ANIMAL

Despite having traits similar to cats, it is more closely related to the mongoose. In fact, it is a member of the Eupleridae, a family of carnivores, closely related to the mongoose family. Over 50% of its diet happens to be lemurs. Its classification has been controversial because its physical traits resemble those of cats, yet other traits suggest a close relationship with viverrids.

- KANKANA KARMAKAR, class X, ABSS

Quiz time

MIXED BAG

Q.1) Which is the first country in the world to have a women-only bank?

- A. Tanzania B. Pakistan C. India D. Bangladesh

Q.2) ___ is referred to as the fear of not having access to a mobile phone

- A. Sinistrophobia B. Metrophobia C. Nomophobia D. Chorophobia

Q.3) Who gave the middle name 'Priyadarshini' to Indira Gandhi?

- A. Mahatma Gandhi B. Rabindranath Tagore C. Jawaharlal Nehru D. Lal Bahadur Shastri

Q.4) Which is the only river to flow through four capital cities - and is the 2nd longest in Europe?

- A. Rhine B. Danube C. Elbe D. Volga

ANSWERS

1. B) Pakistan 2. C) Nomophobia 3. B) Rabindranath Tagore 4. D) Danube

CHECK YOUR APTITUDE

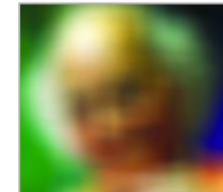
1) Two buses start from the opposite points of a main road, 150kms apart. The first bus runs for 25kms and takes a right turn and then runs for 15 kms. It then turns left and runs for another 25 kms and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 kms along the main road. What would be the distance between the two

buses at this point?
A. 65kms B. 75kms
C. 80 kms D. 85kms

2) A man bought an oxen and a cart for ₹3000. He sold the ox at a gain of 20% and the cart at a loss of 10%, gaining 2% overall. Find the cost of the ox.
A. ₹2,200 B. ₹1,800
C. ₹1,200 D. ₹1,000

ANSWER:
1. 65 km 2. ₹1,200

IDENTIFY THE PERSONALITY



This 89-year-old classical vocalist is the first Indian to have a minor planet named after him by the International Astronomical Union

Answer: Pandit Jasraj