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STUDENT EDITION



WEDNESDAY, SEPTEMBER 16, 2020

WEB EDITION

Quote unquote

The coronavirus has taught us a certain lesson— it has taught us that there has to be a new normal; we need to be more diligent about it, and more cautious about our lifestyle. We are not lagging behind anyone in our efforts to contribute towards the vaccine against Covid... By the end of this year, we hope to be able to get a vaccine against Covid

HARSH VARDHAN,
Union minister, health and family welfare



SCIENTISTS FIND GAS LINKED TO EARTH ON VENUS

Is there LIFE on VENUS?

A study has revealed that a gas found on Earth has been detected in the atmosphere of Venus, raising hopes that the planet could play host to certain life forms. A team of experts, who used telescopes in Hawaii and Chile's Atacama Desert to observe Venus' upper cloud deck, around 60 kilometres from the surface, detected a chemical — phosphine — in the thick Venus atmosphere. Scientists, however, been unable to offer any explanation about the presence of phosphine in Venus' atmosphere, which ideally shouldn't have survived, given the planet's surface temperature of 900 degrees Fahrenheit, along with the clouds that are highly acidic.

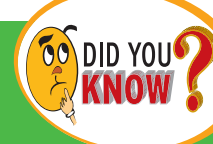
WHAT IS PHOSPHINE

Phosphine, an inflammable and toxic gas, with a smell akin to that of a decaying fish or garlic, is usually produced by bacteria, which don't require oxygen, such as those living in swamps, wetlands, sludge or even animal gut



THE PLANET

- Venus, which rotates in the opposite direction (the sun rises in the west and sets in the east), and where a day lasts 243 times longer, is a subject of intense interest among the astronomers
- Compared to our Earth, it's a hellhole. With 96% of the atmosphere made up of carbon dioxide, it has experienced a runaway greenhouse effect. Surface temperatures are like those in a pizza oven, over 400 degrees Celsius
- Space probes that have landed on the planet have survived just minutes before breaking down
- Previous studies have unearthed clues suggesting that Venus has active volcanoes, including signs of recent lava flows



Earth and Venus are very similar in size, with only a 638 km difference in diameter, and Venus having 81.5% of the Earth's mass. Both also have a central core, a molten mantle and a crust

FOR A CAUSE

SACHIN TENDULKAR LENDS SUPPORT TO CHILDREN FROM ECONOMICALLY-WEAKER BACKGROUND

Cricket legend Sachin Tendulkar has joined hands with an NGO to support 560 tribal children from economically-backward sections. Tendulkar has partnered with 'NGO Parivaar', which has built Seva Kutirs in remote villages in the Sehore district of Madhya Pradesh. Children from villages, Sewaniya, Beelpati, Khapa, Nayapura and Jamun Jheel in Sehore district are now getting nourished meals and education with the help of Tendulkar's foundation. The children are predominantly from Barela Bhil and Gond tribes.

As a goodwill ambassador for the UNICEF, Tendulkar has regularly spoken about interventions like 'Early Childhood Development'. He has been associated with several initiatives for children. Recent among these include financial assistance provided by him towards the treatment of children from low economic backgrounds at the SRCC Children's Hospital in Mumbai.

In December 2019, Tendulkar through the 'Spreading Happiness In Diya Foundation', set up solar lighting systems to provide green energy to run digital classroom at Shri Gadge Maharaj Ashram School, Bhivali, Mumbai.



'NOMADLAND' WINS TOP PRIZE AT VENICE FILM FESTIVAL

Nomadland by director Chloe Zhao has scooped the top prize at the Venice film festival, the first woman to win the Golden Lion in a decade. The film, an ode to American wanderlust and the highs and lows of the open road, won the top honour in a competition, billed as a relaunch of global cinema bruised by the coronavirus crisis. Starring Frances McDormand, it is set among a motley tribe of ageing van dwellers, down on their luck and roaming the West. The double-Oscar winner plays a widow, who takes to the road after losing her home.

ENTERTAINMENT



FLYERS CAN'T USE RECORDING GADGETS THAT CREATE CHAOS: DGCA

Aviation regulator Directorate General of Civil Aviation (DGCA) has "clarified" that passengers can take photos and videos inside flights but can't use any recording equipment that creates chaos, disrupts flight operations, violates safety norms or is banned by the crew members.

NEWS IN BRIEF

CLICK HERE FOR MORE

WOMEN NEED TO BE PUSHED INTO POWERFUL ROLES: PRIYANKA CHOPRA

Actress Priyanka Chopra Jonas, who is also known as an ambassador of women empowerment, has an interesting insight on female representation in various fields across the world. During a live interaction with Cameron Bailey, director and co-head of the Toronto International Film Festival (TIFF), the 38-year-old actress called for the need to push women into powerful roles. It's the only way to be able to get to the place that we want to be, she added.

Chopra stressed that people need to recognise that women are a part of the world and need to be represented in every industry. "Feminism needs men," she emphasised



CELEB TALK

NASA WANTS TO BUY MOON RESOURCES FROM PRIVATE FIRMS

NASA is looking for private companies from around the world that can grab lunar dirt and rocks, setting off the process of creating a new marketplace for space resources. Outlining its goal, the US space agency has said that it aims to complete the retrieval and transfer of ownership of the resources before 2024. NASA has set the goal of landing the first American woman and next man on the Moon by 2024.

As per the requirements outlined by NASA, a company will collect a small amount of Moon "dirt" or rocks from any location on the lunar surface, provide imagery to the agency of the collection and the collected material, along with the data that identifies the collection location. They will then have to conduct an "in-place" transfer of ownership of the lunar regolith or rocks to NASA



SPACE

AVIATION



On Sept 12, the regulator had said that a scheduled flight will be suspended for a period of two weeks, if anyone is found taking photographs inside the plane. In fact, the DG of Civil Aviation had asked IndiGo to take "appropriate action" after it found alleged violation of safety and social-distancing protocols by media-persons in the airline's Chandigarh-Mumbai flight that had actor Kangana Ranaut as a passenger. According to a video of the incident that took place inside the flight on Sept 9, reporters were seen jostling and bunching up to get a comment from Ranaut

TECH BUZZ

AMITABH BACHCHAN IS THE NEW VOICE OF AMAZON'S ALEXA



Amazon Inc has signed up actor Amitabh Bachchan for its Alexa voice assistant. Amazon will apply neural speech technology to make Alexa sound exactly like Bachchan no matter what question he is answering without needing to record every word in his voice in the studio. Users can buy Bachchan's voice as a skill to provide weather updates, recite poetry, etc

Amazon first used a celebrity voice when Hollywood actor Samuel L Jackson made a debut on Alexa. It has since added professional voice actors, who recite Shakespeare, Mark Twain, proverbs and fables. Last year, rival Google Assistant added the voice of American singer John Legend. However, the dominant Google voice assistant is yet to debut a celebrity voice in India

GAURI KHAN TURNS AUTHOR WITH 'MY LIFE IN DESIGN'

Interior designer Gauri Khan is all set to make her debut as an author. Tentatively titled, 'My Life In Design', the book is about her journey as a designer and the design philosophy that has helped shape her aesthetics. Khan's coffee-table book will be published under Penguin Random House India's Ebury Press imprint.



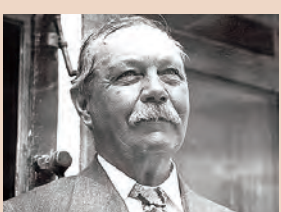
Khan is known to be the brain behind the homes of several Bollywood A-listers, including Karan Johar, Ranbir Kapoor and Jacqueline Fernandez

ANNE FRANK



The famous teenage diarist wrote a lot of entries with a fountain pen. In "The Diary of a Young Girl", there is a chapter, where she mourns the loss of her pen after it gets accidentally burnt in a fire. It was a gift from her grandmother, and came in a red leather case, when she was nine. She was upset to lose it. It is rumoured to be a Montblanc Meisterstück, as that was a popular and common pen of that era.

SIR ARTHUR CONAN DOYLE



The much-loved Sherlock Holmes author was known for writing with a Parker Duo-fold fountain pen. The pen, much like the Sherlock Holmes tales, is still popular.

TOP AUTHORS AND THEIR ICONIC WRITING INSTRUMENTS

ERNEST HEMINGWAY



Hemingway used to write in pencil. In his Paris memoir, 'A Moveable Feast' he said, "The blue-backed notebooks, the two pencils and the pencil sharpener; the marble-topped tables, the smell of cafe cremes, the smell of early morning sweeping out and mopping, and luck were all you needed."

HARUKI MURAKAMI



Murakami has time and again admitted his love for fountain pens. It is believed that he bought his first one for approximately \$5, along with some manuscript paper. In fact, he loves pens so much that he even specifies the brand of the fountain pen some of the characters in his novels use!

STEPHEN KING



Stephen King often advises new writers to forgo digital distractions by writing with pen, as according to him, it forces the writer to slow down and focus on the writing process. He has admitted that many of his novels, including 'Carrie' and 'It' were written with a Waterman Hemisphere pen.

Yoshihide Suga set to be Japan's PM, succeeding Abe

Japanese chief cabinet secretary Yoshihide Suga, a loyal aide to the outgoing PM Shinzo Abe, won a landslide victory in a ruling party leadership election on Monday, paving the way for Japan's first change of leader in nearly eight years. Suga, 71, who has promised to continue Abe's main policies, said his big win would give him the backing to pursue Abe's reform goals, including containing the coronavirus.

PEOPLE



The son of a strawberry farmer from northern Japan, Suga, faces geopolitical challenges, such as building ties with the winner of the US presidential election, and balancing concern over China's maritime aggressiveness with bilateral economic interdependence

How to ace online exams? WE TELL YOU!

Do you want tips for writing online exams? We've gathered some basics for you to follow, so you can come off with flying colours this semester. Pro Tip: Be calm and you will do well



Test Your Technology

Test that everything works on your computer prior to the exam. Check your browser and any other apps that are required. Also, don't forget to keep a charger close by!

Don't Leave The Test Page

So, you think you can quickly Google what you don't know during an online test? WRONG. If you leave the test page, you risk losing access to it again. Specific apps and websites are used to lock you out once you leave. Furthermore, copying the tab and reopening the exam in a different window may lose all of your work.



Unforeseen Tech Problems

This can happen to anyone. Even after testing the equipment beforehand, your laptop might decide to do an impromptu shutdown – without permission. DON'T PANIC.

Contact your instructor right away and let them know what happened. Detail the exact problem, the error messages received, and also take a screenshot or photo on your phone to prove that you're not lying.



Pace Yourself

You don't need to rush through it all, but keep an eye on the clock. Before this exam, you should review the guidelines, expectations, and test format so you know how long to spend on each question.



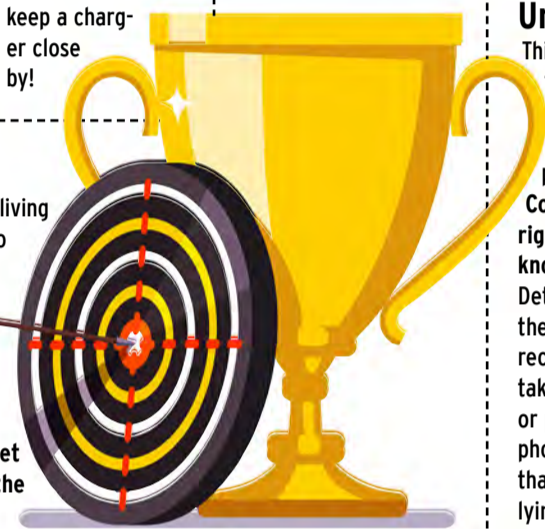
Proofread

It's easy to overlook an unanswered question on your computer. Review everything before submitting it – accuracy, spelling, and grammar. Don't leave any multiple-choice questions unanswered. Once you're positive you have done it, it's time to submit.



Focus Is Crucial

Find a way to stay on track. If you're living in a loud home, block out the noise so you can concentrate. You might not be able to wear headphones or listen to music while you write online exams (because it looks like you're cheating on camera), but what about earplugs? Find a secluded area and let everyone know that you're writing the exam so they don't bother you.



PS: If you follow these 6 tips for writing online exams, you should be alright. Just don't forget to study.

Credit: <https://blog.studentlifeforum.com>

Use green tea to rejuvenate skin

Green tea is not just good for your body. Aromatherapist Pooja Nagdev gives tips on how to use green tea bags to calm and heal skin.



INSTANT EYE LIFT

Soak used green tea bags in rose water and refrigerate them. Apply these tea bags over closed eyelids for 10-15 minutes for deep relaxation. This helps in relieving stress, relaxing tired muscles and reducing puffiness.

AN INVIGORATING SCRUB

Are you wondering how to use these tea bags as a scrub? It's simple, cut the used tea bag and take out the tea leaves. Take out the leaves out of two tea bags, add oats powder 1 teaspoon, honey – one teaspoon and lemon juice ½ teaspoon to form a paste. Add 3 drops of rosemary oil and 3 drops of tea tree oil to the scrub blend. This paste can be applied all over your face and body to exfoliate and refresh skin.



MAKE A HYDRATING MASK

Cut open two used tea bags. The tea leaves inside are still moist. Add 1 teaspoon of Fuller's earth, 1 teaspoon of orange peel and enough curd to form a thick paste. Apply this paste over your face and neck. Leave it for 10 minutes and rinse with water. Apply a moisturiser post-rinse. This mask hydrates the skin and also reduces the appearance of blemishes and large pores.

► While taking steam (to relieve cold and cough), add a teaspoon of green tea to water. Green tea is great for the respiratory system as well as skin as it calms tired skin, makes it softer, and also reduces redness and inflammation that usually happens when you are suffering from cold.



MATHDOKU

4 BY 4 MATHDOKU

FILL THE GRID WITH THE NUMBERS 1 TO 4 IN SUCH THAT EACH NUMBER APPEARS ONLY ONCE IN EACH ROW AND COLUMN. THE MATHDOKU GRID IS ALSO DIVIDED IN OUTLINED REGIONS CALLED CAGES EACH WITH A GIVEN OPERATOR AND TARGET NUMBER. THE NUMBERS IN THE INDIVIDUAL CELLS OF A CAGE MUST PRODUCE THAT TARGET NUMBER USING THE OPERATOR IN A MATHEMATICAL CALCULATION.

24×			
3+		4×	12×
12×	6×		
		2÷	

0404 MATHDOKU EASY 1

9+		3+	1-
	9+		
		24×	4÷

0404 MATHDOKU EASY 2

1-	6×	2×	
			2÷
3+	7+		
	12×		

0404 MATHDOKU EASY 3

9+	3+		6×
		13+	
3+	3-		

0404 MATHDOKU EASY 4

ANSWERS

1	4	3	2
2	1	4	3
3	2	1	4
4	3	2	1

0000 MATHDOKU EASY 1

1	4	2	3
4	3	1	2
2	1	3	4
3	2	4	1

0000 MATHDOKU EASY 2

4	3	2	1
3	2	1	4
1	4	3	2
2	1	4	3

0000 MATHDOKU EASY 3

4	2	1	3
2	3	4	1
1	4	3	2
3	1	2	4

0000 MATHDOKU EASY 4

HISTORY MYSTERY

1 Where can you find the oldest wall-carved inscription of zero?

2 In 326 BCE, which Indian king fought against the Macedonian general Alexander at the battle of the Jhelum river?



3 Who disguised herself as the queen and fought on the front to let the queen of Jhansi escape from the fort?

4 Which literature is named after the assemblies of Tamil scholars and poets?

5 In which battle, a small regiment of Sikhs fought off and defeated 10,000 Afghan tribesmen?

Content by 'History Diaries'. Co-founded by IIT-Delhi alumni, it is an initiative to make history interesting, engaging and relevant, transforming the way it is being taught in schools

ANSWERS

1. Chaturbhuj Temple, Gwalior
2. Porus
3. Jhalkari Bai
4. Sangam Literature
5. Battle of Saragarhi

MAKE PLAY DOUGH DINOSAUR FOSSILS



► This simple art and craft idea is a good one to try once your online semester tests are done with. Grab a tub of play dough, a couple of dinosaur toys and make your own fossils. Don't have any dinosaur toys? See what other household items you can push into the clay to look like dinosaur claws! Or adapt to suit any of your favourite toys. Try the doll fossils too if you want to. It's different and engaging as well. Send us your creations at timesnet175@gmail.com

LET YOUR IMAGINATION FLY

MAKE A PICTURE STORY (70 WORDS)

See the pic carefully, identify the players in the frame. Write a story (make it imaginary) about what happens NEXT... Does the ball travel to the boundary, is he caught and bowled? Or is the batsman run out? Or does an alien ship capture the players in the frame? Go on...



WORD WISE

Ephemeral (Adj): Lasting for a very short time.

Synonymous words: Transitory, transient, fleeting, short-lived, momentary, brief, short, temporary, impermanent, short-term, fading, cursory, passing, etc.

Examples:
 ■ Trends in fashion are **ephemeral**, the new ones replace the old.
 ■ The girl said she saw a scary image for a **fleeting** second.
 ■ The lives of butterflies and moths are **short-lived**.
 ■ She said she had experienced a **momentary** lapse of memory.

KNOWLEDGE BANK

Cyclocarbon

Chemists have created a new form of carbon called cyclocarbon. Cyclocarbon consists of an 'n' number of carbon atoms covalently linked in a ring. As the compound is said to be composed only of carbon atoms, it is considered an allotrope of carbon. Possible bonding patterns include all double bonds (a cyclic cumulene) or alternating single bonds and triple bonds (a cyclic polyene). The smallest cyclo[n] carbon predicted to be thermodynamically stable is C18.



CHEMISTRY