CLICK HERE: WWW.TOISTUDENT.COM

STUDENT EDITION

FRIDAY, AUGUST 7, 2020

Quote unquote

Now, we face a generational

catastrophe that could waste

untold human potential, under-

mine decades of progress, and

exacerbate entrenched inequali-

ties. Once local transmission of

Covid-19 is under control, getting

learning institutions as safely as

possible must be a top priority.

Consultation with parents, car-

ers, teachers and young people

ANTONIO GUTERRES, secretary

students back to schools and



Scientists find way to track in daylight



cientists have discovered a way to detect the space debris even in daylight hours, potentially helping satellites to avoid the ever-growing cloud of junk orbiting the planet. According to scientists, the debris can now be detected from the ground, using lasers.

around twilight, when the detection station on the Earth is in the dark, and the debris still illuminated by the sun. The researchers extended the window in which the space junk is visible, using a combination of a telescopic detector and filter to increase the contrast of objects as they appear against the sky during the

EDUCATION

NCERT to work

on new National

Framework post

he new National Education Policy

(NEP) 2020 comes after a gap of 34

years. It will replace the previous

policy, formulated in 1986. The policy rec-

ommendations will be implemented in

phases. The restructuring will also see a

revision in the syllabus and content, as

the National Council of Educational Re-

search and Training(NCERT) will soon

work on the new National Curriculum

Framework (NCF). "The MHRD will now

appoint a steering committee that will

work on the new NCF in line with the lat-

est policy. The committee will prepare two

frameworks - Early Childhood Learning

and Development Framework and School

Education Framework, says Hrushikesh

➤ The NCF will focus on the pedagogy for the holistic development of students to equip them "with the key 21st century skills", says Senapaty.

There will be reduction in the curricular content to enhance their essential learning and critical thinking, and

greater focus will be on experiential learning. Students will have increased flexibility and choice of subjects, as

between arts and sciences, between

curricular and extracurricular activi-

ties, between vocational and academ-

ic streams, he adds ➤ The framework

that is expected to be out within the

next seven months, will define the

learning outcomes and the corre-

tinuous learning and assessment.

onwards, new content will also be

integrated," he states.

sponding syllabus that ensures con-

"With the introduction of vocational

courses, such as coding from class VI

there will be no rigid separation

Senapaty, director, NCERT.

Curriculum

NEP 2020

day. They also developed a real-time target detection software system that predicts when certain objects could be observable. Overall, the new technique could increase the observation time of the space junk from the Earth—from six to 22 hours a day.

PACE JUNK: Space debris, also called as space

SIZE: Defunct rockets, satellites and the low Earth orbit, within 2,000 km of the Earth's surface; however, some debris can be found in the geostationary orbit, 35,786 km above the Equator

Till date, the United States **Space Surveillance Network has** tracked more than 14,000 pieces of space debris, larger than 10 cm across. It is estimated that there are about 200,000 pieces between 1 and 10 cm across, and that there could be millions of pieces smaller than 1 cm

POTENTIAL HAZARD

- > Because of the high speeds at which the objects orbit the Earth, a collision with even a small piece of space debris can damage a spacecraft, warn experts
- ➤ The amount of debris in space threatens both crewed and uncrewed spaceflight. The risk of a catastrophic collision of a space shuttle with a piece of space debris is 1 in 300.
- > On July 24, 1996, the first collision between an operational satellite and a piece of space debris took place, when a fragment from

the upper stage of a European Ariane rocket collided with Cerise, a French microsatellite. Cerise was

damaged but continued to function ➤ The first collision that destroyed an operational satellite happened on February 10, 2009, when Iridium 33, a communications satellite owned by the American company, Motorola, collided with Cosmos 2251, an inactive Russian military communications satellite, about 760 km above northern Siberia, shattering both the satellites

WHAT IS KESSLER SYNDROME?

A piece of space debris can reach the speeds

of 6.9 to 8 kilometres per second. That's near-

ly 7 times faster than a bullet, and just about

the equivalent of being hit by a bowling ball moving at

and Atmospheric Administration, around 200 - 400 space

482 km per hour. According to the National Oceanic

debris enter the Earth's atmosphere every year

TOP FOODS FOR

KIDS' EYE HEALTH

he pandemic-induced lockdown, re-

stricted outings has led to more screen

time for the children, with online class-

es and leisure time being spent on playing

video games, web games, etc. This situation

has led to dry eyes and other eye health-re-

lated problems in kids. To keep your eyes

healthy, include these foods in your daily diet.

CHEESE AND EGGS: Both eggs and cheese

are rich in Vitamin A, which means good eye

health. Egg yolk is rich in lutein, again good

for the eyes. So, have omelette, half-fried or

FISH WITH CHIPS: Fish varieties, such as

salmon and sardines, are a great source of

omega 3 fatty acids. This snack combo is

also delicious and fun for those evenings,

when you want to munch something, while

CHOCOLATE AND ALMONDS: Add a punch

of nutrition to chocolates by pairing it

with few almonds - it's rich in Vitamin E,

SEASONAL VEGGIES: Vegetables are rich

in nutrients, such as vitamin A, Vitamin C

and Vitamin K — all of these are good for

and makes for a healthy midday snack

sunny side up, and ask your parents to add

some cheese on top.

watching TV.

> Donald Kessler, a NASA scientist, has theorised that the continuous collisions of man-made objects in the space will potentially destroy the telecommunications and keep humanity trapped on the Earth. His prediction is famously referred to as the Kessler syndrome

is fundamental

general, UN



ROWLEY JEFFERSON'S AWESOME FRIENDLY **ADVENTURE**

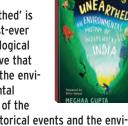
From #1 New York Times bestselling author - Jeff Kinney, comes an entirely new, awesome, friendly, and truly fantastic fantasy quest, 'Rowley

Jefferson's Awesome Friend Adventure'; the second novel in his series of' Diary of an Awesome Friendly Kid'. Published by Puffin Books, this epic adventure has evolved from the imagination of Wimpy Kid's Rowley Jefferson, and is bound to take all the readers on an

UNEARTHED: THE ENVI-RONMENTAL HISTORY OF INDEPENDENT INDIA BY MEGHAA

escapade like never before!

'Unearthed' is the first-ever chronological narrative that traces the environmental impact of the



key historical events and the environmental events that made history - from the Green Revolution to Bhopal gas tragedy, from Chennai's water crisis to smog in Delhi, from clean energy to waste in space. It is replete with little-known facts, trivia boxes, infographics, black and white illustrations and profiles of people working in this field, all of which complements this easyto-read, comprehensive book to follow and broaden the EVS and general syllabus taught in schools.

junk, is an artificial material that orbits the Earth as unfunctional objects Until now, this method only worked for a few hours

ALWAYS WANTED TO BE AN IAS

lings, Verma ranked third in the exam. She got

489th rank in the civil services exam last year.

Verma, who did her BTech from IIT-Delhi, and

is an officer of Indian Revenue Service (Income

Tax), said, she always wanted to become an IAS

GET INSPIRED

and work with dedication to

-PRATIBHA VERMA, IAS

Imbibe two key ele-

ments – set a target

OFFICER: CS WOMAN TOPPER

👕 IRS officer Pratibha

gious civil services

exam, has attributed her

success to hardwork

and determination to

stick to a schedule, de-

spite being unwell for

some time. Youngest

among the three sib-

officer, since her childhood.

Verma, who topped

among the women candidates in the presti-

acecraft parts continue to orbit the Earth after hey are discarded. So, these materials can be as arge as a discarded rocketstage or as small as a microscopic chip of paint. Much of the debris is in

👧 DID YOU

KNOW

EOIN MORGAN MOVES PAST MS DHONI

ngland's captain Eoin Morgan has broken the record for the most sixes in international cricket as





➤ Morgan went past MS Dhoni's tally of 211 sixes . The England captain needed only 163 matches to get past Dhoni's tally. The former India captain had taken 332 international matches for 211 sixes. ➤ Ricky Ponting is at the 3rd spot on the list of captains with most international sixes – 171 in 324 matches

Nest Indies great Chris Gayle holds the record for most sixes in an international career



achieve it

A HANDKERCHIEF TO RAISE COVID-19 AWARENESS

ith the rise in Covid-19 cases in the world, American actor- producer, Mark Ruffalo has urged the people to wear masks. The actor also said that he wears a mask because he cares about the other people around him. The 52-year-old star posted a monochromatic picture of himself on Instagram, wherein he is seen with his face covered with a white handkerchief. It shielded his nose and mouth as he looks into the camera.

Many celebrities, including actors Miley Wilson and Jennifer Aniston, have also comwear masks to prevent

MARK RUFFALO SHARES A PICTURE COVERING HIS FACE WITH

Cyrus, Tom Hanks, Rita mented on the need to the spread of coronavirus



On 'Mughal-e-Azam's' 60th anniversary, film's screenplay enters OSCARS LIBRARY

the health of your eyes.

'Mughal-e-Azam' celebrated its 60th anniversary as director K Asif's son Akbar Asif presented the screenplay of the film to the Oscars library in Hollywood.

ENTERTAINMENT

Akbar Asif, the UK-based son of the late director, said, he presented the screenplay to the Academy Awards to mark the anniversary of his father's historical epic, starring Prithviraj Kapoor, Dilip Kumar and Madhubala.

o DID YOU **Filmmakers** can submit their films to the Oscars library by filling up a form. However, movies released in Los Angeles are automatically invited to be a part of the

library

- Three versions of the legendary screenplay in Hindi, Roman and English are now available at the Margaret Herrick Library, a world-renowned reference and research collection of the Academy, devoted to the history and development of the motion picture as an art form and an industry
- The screenplay of the film, which hit the screens in India on August 5, 1960, was crafted by a team comprising Aman, Kamal Amrohi, Wajahat Mirza, Ehsan Rizvi and director K Asif
- * 'Mughal-e-Azam' went on to break every box office record, and is still considered as one of the highest-grossing Bollywood films of all time 🗫 In 2004, the film became the first full-length Indian feature film colourised for a theatrical re-release : In 2013, to mark the 100th anniversary of the Indian cinema, it was declared as the greatest Bollywood film ever made to In 2016, in a historic moment, a live musical, based on the film was staged by one of the biggest theatre productions