



THE TIMES OF INDIA

www.toistudent.com
[CLICK HERE: WWW.TOISTUDENT.COM](http://www.toistudent.com)

STUDENT EDITION

THURSDAY, AUGUST 6, 2020



WEB EDITION

SPLASHDOWN LANDING

WHAT The NASA and SpaceX's joint endeavour – the Crew Dragon, returned to the Earth on August 2, 2020 via a splashdown at sea

HOW The astronauts, Robert Behnken (Bob) and Douglas Hurley (Doug), made a splashdown landing in the Gulf of Mexico. Splashdown is a method of landing a spacecraft by parachute in a water body



WHY IS IT SIGNIFICANT

1 Previous NASA space vehicles have returned to the Earth via airstrip landing, this was the first splashdown at the sea in 45 years

2 The return trip is an important part of the Crew Dragon's first flight

3 After the launch, the re-entry through the Earth's atmosphere is the second most dangerous phase of a spaceflight. The friction of air rushing past, heats the bottom of the capsule to about 3,500 degrees Fahrenheit

4 A successful conclusion to the trip opens the door to more people flying to space. Some companies have already announced plans to use Crew Dragons to lift wealthy tourists to space



DID YOU KNOW? Earlier, the NASA space vehicle launches would culminate into landing at the Space Shuttle Landing Facility (SLF) at Cape Canaveral Spaceport. The space coast site has a 15,000-foot runway, a veteran of more than 130 Space Shuttle landings

YOUR CAREER GUIDE

Want to become an ISRO astronaut? Here's what is required

- One of the most important factors to become an astronaut is how well you are versed with the subject of astrophysics and other fields of sciences related to space
- If you have a bachelor's degree, you can appear for an entrance exam, which is held by the NASA and ISRO

- You should be at least 21 years of age, while applying
 - To be an astronaut, the eyesight of 6 by 6 is not enough. Your near and far vision must be 20 by 20 for each eye
 - The height requirement varies from aeronautical administrations to administrations, though an average height required is from 5'2" to 6'2"
- (Source: ISRO, NASA)

Is it safer to land on water than on land?

A spacecraft can return to the Earth safely in either environment. During the 1960s and 1970s, NASA's Mercury, Gemini and Apollo capsules all splashed down in the ocean, while Soviet capsules

ended their trips on land. Russia's current Soyuz capsules continue to make ground landings, as do China's astronaut-carrying Shenzhou capsules. The last water landing by NASA astronauts occurred in July 1975 at the end of the Apollo-Soyuz mission

What do astronauts experience during a water landing?

Returning from the free-fall environment of the space orbit to the normal forces of gravity on the Earth is often disorienting for the astronauts. A water landing adds the possibility of sea-sickness.

THIS DAY THAT YEAR AUG 6



1926: Gertrude Ederle from New York, at the age of 19, became the first woman to swim the English Channel, breaking the men's record by nearly two hours

1945: The United States dropped an atomic bomb on Hiroshima, Japan—the blast killed more than 70,000 people and destroyed most of the city—in an effort to hasten the end of the World War II

1962: After 300 years of the British rule, Jamaica became an independent country within the Commonwealth of Nations.

1990: The UN Security Council imposed economic sanctions on Iraq, ruled by Saddam Hussein, for its invasion of Kuwait, four days earlier.

2012: NASA's robotic vehicle Curiosity (also called Mars Science Laboratory) landed on Mars, and soon began transmitting images of the planet's surface

(Source: Britannica.com)

NEWS IN BRIEF

CLICK HERE FOR MORE

IIT, KGP researchers awarded for generating power from wet clothes

A group of researchers from IIT, Kharagpur has been conferred the 'Gandhian Young Technological Innovation Awards 2020' for developing a mechanism for generating electricity from wet clothes left under the sunlight to dry, a spokesperson of the institute said. Another team from the institute was separately granted the same award for addressing the problem of energy conservation and thermal management in wearable and flexible electronic devices.

INNOVATION

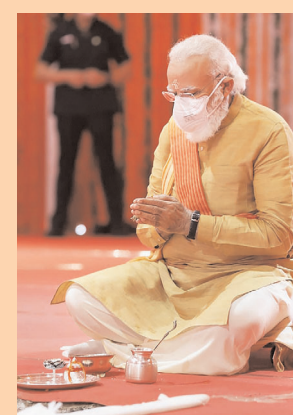


➤ The device has been tested in a remote village, where around 50 wet clothes were left for drying by the washer men. These clothes were connected to a commercial super capacitor, which discharged electricity of around 10 volt. This stored energy is enough to glow a white LED bulb for more than an hour

➤ "The clothes we wear are made from cellulose-based textile, which has a network of nano-channels. Ions in saline water can move through this interlace fibrous nano-scale network by capillary action, inducing an electric potential in the process," explained the researchers from the department of mechanical engineering

Wait over, finally! Modi lays the first brick of Ram Mandir

PM Narendra Modi laid the foundation stone of the much-awaited Ram Mandir in Ayodhya on Wednesday



THE PROPOSED TEMPLE

- The temple will be 161-foot-tall, and almost double the size of what was originally planned, according to its architect.
- The design was modified after the SC verdict in November on the 2.77 acre site claimed by both Hindus and Muslims, where the 16th century Babri mosque stood. The SC said the site would be handed over for a Ram temple and an alternative five-acre site would be given to Muslims.
- Architect Chandrakant Sompura, who comes from a family of temple architects, was asked around 30 years ago to design the Ram temple. (PTI)

Ram Mandir will become the modern symbol of our traditions. It'll become a symbol of our devotion, our national sentiment. This temple will also symbolise the power of the collective resolution of crores of people. It will keep inspiring the future generations

NARENDRA MODI,
Prime Minister

Students tie rakhis on trees with 'Save Environment' messages

Students in Moradabad celebrated Rakshabandhan in a unique way by tying rakhis on trees with messages like 'Save Environment' and 'Save Trees, Save Life'. This was done by the students in an attempt to raise awareness about the environment.

Shilpi Saini, a student said, "Taking this opportunity to spread awareness about the environment, we are tying rakhi on the trees. With the messages, 'Save Environment' and 'Save Trees, Save Life,' we want to tell everyone about the benefits of the trees for the mankind." "With the rise in population, the trees are being chopped down. It is our responsibility to protect these trees; it helps our environment," said another student, Pushpanjali Singh

ENVIRONMENT



Huge explosion rocks Beirut



A massive explosion rocked downtown Beirut on Tuesday, flattening much of the port, damaging buildings and blowing out windows and doors as a giant mushroom cloud rose above the capital. The cause of the blast was not immediately known. It was shocking even for a city that has been shaken by civil war, suicide bombings and bombardment by Israel.

BESTSELLERS ON NYT LIST

THE ONE AND ONLY BOB by Katherine Applegate. Illustrated by Patricia Castelao. In this sequel to 'The One and Only Ivan', Bob sets out on a dangerous journey in search of his long-lost sister.



WONDER by R J Palacio. A boy with a facial deformity starts a school



DIARY OF AN AWESOME FRIENDLY KID by Jeff Kinney. Greg's best friend Rowley Jefferson writes his own diary



WINGS OF FIRE: LEGENDS: DRAGONSLAYER, by Tui T Sutherland. Ivy, Leaf and Wren fight for the survival of the human race against the dragons



A TALE OF MAGIC..., by Chris Colfer. In a world, where magic is outlawed and women are forbidden to read, Brystal Evergreen defies the odds



AVATAR, THE LAST AIRBENDER: THE SHADOW OF KYOSHI by FC Yee. Kyoshi must stop a mysterious threat that emerges from the Spirit World



HAWK by James Patterson. Ten years after Maximum Ride, a new hero emerges in a post-apocalyptic New York City



CHAIN OF GOLD by Cassandra Clare. Cordelia battles demons in a quarantined London, unlike things, she's encountered before



CLAP WHEN YOU LAND by Elizabeth Acevedo. Unknown to each other, two sisters meet, when their father dies in a plane crash

