

August - 31

TNPSC BITS

- ❖ Indian Oil will build India's first Green Hydrogen Plant at Mathura refinery.
 - Indian Oil - India's largest fuel refiner and crude oil importer- in not only developing hydrogen fuel but also plans to expand biofuel manufacturing.

TAMIL NADU

Teachers Eligibility Test

- ❖ As the Tamil Nadu Government announcement, the Teachers Eligibility Test (TET) certificate will be extended for a lifetime.
- ❖ It was before valid for seven years.
- ❖ This order is also applicable to the TET certificate already issued by the teacher's recruitment board.



NATIONAL

India - Germany Joint Exercise

- ❖ The Navies of India and Germany conducted a joint exercise in Gulf of Aden.
- ❖ The joint exercise included helicopter landings as well as search & seizure operations.
- ❖ The Frigate 'Trikanth' from the Indian Navy exercised with the German frigate called 'Bayern'.
- ❖ INS Trikanth is deployed for anti-piracy patrol in Gulf of Aden region.

- ❖ The exercise enhanced the interoperability and facilitated exchange of best practices between them in the maritime domain.
- ❖ The Navies of India and Germany conducted the first ever joint exercises in 2008 after both the nations signed an 'anti-piracy co-operation agreement' in 2006.

Deepar Beel Wildlife Sanctuary

- ❖ The Ministry of Environment, Forest and Climate Change has notified the eco-sensitive zone of the Deepar Beel Wildlife Sanctuary on the south-western edge of Guwahati.
- ❖ Deepar Beel is one of the largest freshwater lakes in Assam.
- ❖ It is the State's only Ramsar site besides being an Important Bird Area.

Note

- ❖ The Eco-Sensitive Zones (ESZs) or Ecologically Fragile Areas (EFAs) are areas notified by the MoEFCC around Protected Areas, National Parks and Wildlife Sanctuaries.
- ❖ The Environment (Protection) Act, 1986 does not mention the word "Eco-Sensitive Zones".



Gandiv exercise

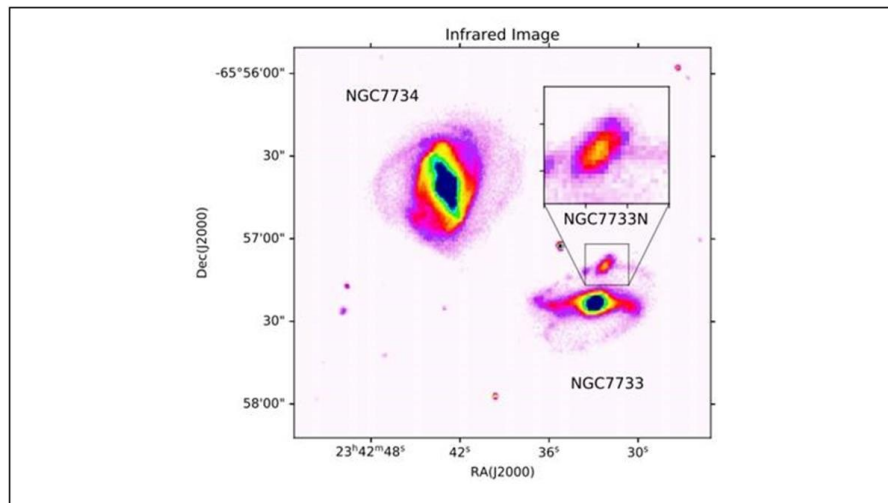
- ❖ The third edition of the week-long annual exercise called 'Gandiv' was launched by the NSG.
- ❖ The synchronised commando drills as part of a national mock exercise were carried out by the counter-terrorism force National Security Guard (NSG).
- ❖ This is to check its response time and reaction to hostage and hijack-like situations.

- ❖ Gandiv was the name of Arjuna's bow in Mahabharata.
- ❖ The NSG was raised as a federal counter-terrorism force in 1984 to undertake surgical commando operations in order to neutralise terrorist and hijack threats.



SCIENCE AND TECHNOLOGY

Merger of three black holes spotted



- ❖ A rare merging of three supermassive black holes has been spotted by a team of astrophysicists in India.
- ❖ All three merging black holes were part of galaxies in the Toucan constellation.
- ❖ The discovery was made using data from the

- Ultraviolet Imaging Telescope (UVIT) onboard the first Indian space observatory ASTROSAT,
- European integral field optical telescope called MUSE mounted on the Very Large Telescope (VLT) in Chile and
- Infrared images from the optical telescope (IRSF) in South Africa.

Quantum Computer Simulator Toolkit

- ❖ The Ministry of Electronics and Information Technology (MeitY) has launched the India's first 'Quantum Computer Simulator (QSim) Toolkit'.
- ❖ QSim is the first-of-its-kind toolkit, indigenously developed in India.
- ❖ It meant to be a vital tool of learning and understanding the practical aspects of programming with the help of Quantum Computers.
- ❖ This toolkit has been developed jointly by scientists of IIT Roorkee, C-DAC and IISc Bangalore.
- ❖ It was developed with the support and funding of MeitY.



The poster features the '75 Azadi Ka Amrit Mahotsav' logo at the top left, with the Indian national flag colors. To the right are the logos for the Ministry of Electronics and Information Technology, Government of India, and Digital India. The central text reads 'Quantum Computer Simulator Toolkit' in orange and 'The Next Paradigm Shift in Computing' in green. Below this, it states 'QSim is powered by indigenous High Performance Computer platforms - PARAM SHAVAK, PARAM SIDDHI AI'. A circular inset shows a woman working on a laptop. At the bottom, there are logos for IIT Roorkee, C-DAC, and IISc Bangalore, along with the 'PARAM SHIDDHI AI' logo.

75
Azadi Ka
Amrit Mahotsav

MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA

Digital India
Power To Empower

#AmritMahotsav

Quantum Computer Simulator Toolkit
**The Next Paradigm Shift
in Computing**

QSim is powered by indigenous
High Performance Computer
platforms - PARAM SHAVAK,
PARAM SIDDHI AI

QSim is expected to be a
milestone towards development
of Quantum Technology
in the country

PARAM
SHIDDHI
AI

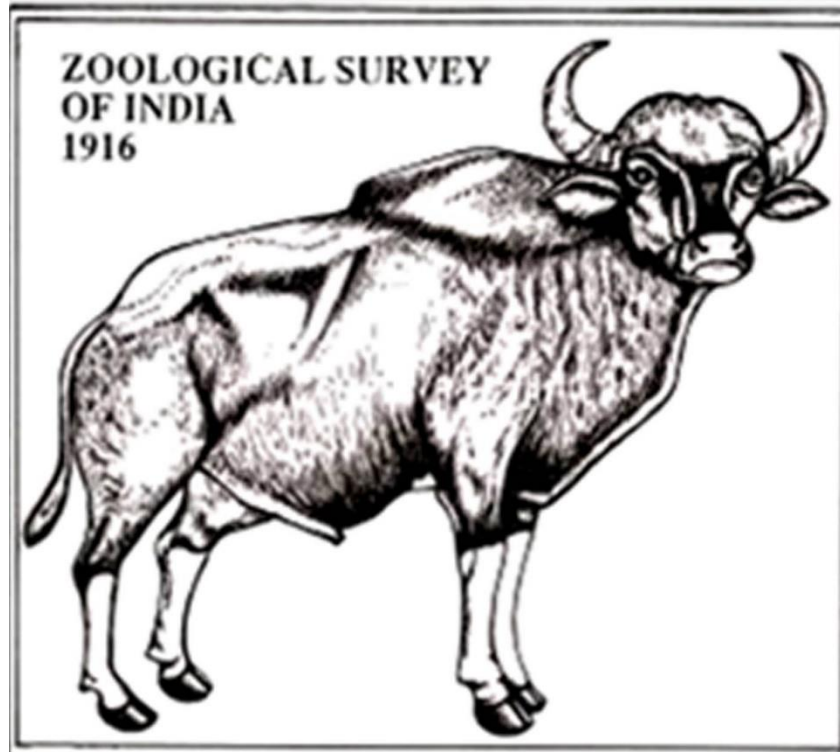
PARAM SHAVAK

PARAM SHIDDHI AI

ENVIRONMENT

Animal Discoveries 2020

- ❖ It is a document published recently by the Zoological Survey of India (ZSI).
- ❖ It reveals that 557 new species have been added to India's fauna in 2020.
- ❖ It includes 407 new species and 150 new records.
- ❖ The number of faunal species in India has climbed to 1,02,718 species.



Some added species

- ❖ *Trimeresurus salazar*, a new species of green pit viper discovered from Arunachal Pradesh,
- ❖ *Lycodon deccanensis*, the Deccan wolf snake discovered from Karnataka,
- ❖ *Sphaerotheca Bengaluru*, a new species of burrowing frog named after the city of Bengaluru,
- ❖ *Xyrias anjaalai*, a new deep water species of snake eel from Kerala,
- ❖ *Glyptothorax giudikyensis*, a new species of catfish from Manipur,
- ❖ *Clyster galateansis*, a new species of scarab beetles from the Great Nicobar Biosphere,
- ❖ *Myotis cf. frater*, a bat species has been reported for the first time from Uttarakhand in India,

- ❖ *Zoothera citrina gibsonhilli*, an orange-headed thrush was reported for the first time from the Narcondam Island in the Andaman & Nicobar Islands.

SPORTS

Bhavina Patel - Silver medal

- ❖ Bhavina Patel of Gujarat created history by becoming the first Indian Table tennis player to win silver medal at Paralympics.
- ❖ She won silver in the women's singles class 4 at Tokyo Paralympics 2020.
- ❖ She lost to China's Zhou Ying.



IMPORTANT DAYS

International Day of the Victims of Enforced Disappearances - August 30

- ❖ The International Day of the Disappearances is a day created to draw attention to the fate of individuals imprisoned at places and under poor conditions unknown to their relatives and/or legal representatives.
- ❖ It is observed on August 30 of each year.
- ❖ The day was established by the UN General Assembly on December 21, 2010.
- ❖ The day also allows states to consider the fulfilment of their obligations under the International Convention for the Protection of All Persons from Enforced Disappearance.



Small Industry Day - August 30

- ❖ The National Small Industry Day is observed on 30th August every year in India.
- ❖ This day aims to promote small Industries for their overall growth potential and opportunities obtained for their development in the year.
- ❖ Small Industry day also is a medium that purposes to offer balanced growth to existing small, medium and large scale enterprises.
- ❖ It also gives assistance for installing new industries to promote the state's financial health.



International Whale Shark Day - August 30

- ❖ The day has been designed to celebrate and increase awareness about these amazing sea-dwelling creature.

- ❖ We need to protect and conserve the whale shark, as their numbers are declining.
- ❖ In 2016, the whale shark was reclassified from a vulnerable species to an endangered one.



International Overdose Awareness Day - August 31

- ❖ The day was initiated in 2001 by Sally J Finn at The Salvation Army in St Kilda, Melbourne.
- ❖ Since 2012, International Overdose Awareness Day has been coordinated by the not-for-profit Australian public health organisation Penington Institute.
- ❖ The campaign raises awareness of overdose, which is one of the world's worst public health crises, and stimulates action and discussion about evidence-based overdose prevention and drug policy.

