

September - 24

TNPSC BITS

- ❖ Vice President Venkaiah Naidu has released the book “Himalayan Odyssey”, written by M P Veerendra Kumar, Rajya Sabha member and chairman and MD of Mathrubhumi Group of publications.
 - Himalayan Odyssey is the English translation of Kumar’s Malayalam book Haimavathab-huvil, which had won Kendra Sahitya Akademi and Kerala Sahitya Akademi awards.
- ❖ A pictorial book that traces the journey of Narendra Modi from his days as a young boy from Vadnagar in Gujarat to New Delhi's 7, Lok Kalyan Marg as the 14th prime minister of India - 'Turbulence & Triumph: The Modi Years' has been released.
 - It is written by Rahul Agarwal and Bharathi S Pradhan.
- ❖ Haryana state government has decided to give Ayushman Bharat Card to provide medical insurance to families with income up to Rs 1.8 lakh.
 - Under the Ayushman Bharat PMJAY scheme, eligible beneficiaries can get free treatment up to Rs 5 lakh at empanelled hospitals.
- ❖ Team India stamped its authority on the 10th Asia-Pacific Youth Games badminton competition in Vladivostok of Russia winning the team Championship gold.
 - Shuttlers Pranav and Meghna producing spectacular performances to clinch the boys and girls singles titles, respectively.
- ❖ A cheerful panda called Bing Dwen Dwen has been chosen as the Olympic mascot for the Olympic Winter Games Beijing 2022. The new Olympic mascot will serve as an ambassador for winter sports.

TAMIL NADU

Tamil Nadu Government Music and Fine Arts University

- ❖ According to a Government Order issued, the Tamil Nadu Government Music and Fine Arts University has been renamed after J Jayalalithaa.
- ❖ The order also said the Tamil Nadu Government Music and Fine Arts University Act 2013 would soon be amended.
- ❖ Founded by Jayalalithaa in 2013, who also served as its first Chancellor, it has four colleges each in Chennai, Madurai, Coimbatore and Thiruvayar.



NATIONAL

BLEU Joint Economic Commission Meet

- ❖ The 16th Session of India-Belgium Luxembourg Economic Union (BLEU) Joint Economic Commission (JEC) has been held recently.
- ❖ BLEU was established in 1997.
- ❖ The European Union is India's largest trade partner.
- ❖ Among the 28 EU member States, Belgium has the third largest trade with India.
- ❖ It is trade worth €12.8 billion in 2018 consisting of diamonds, pharmaceuticals, chemicals, foodstuff and machinery.
- ❖ Belgium was the first country in the world to deploy the Electronic Identity Card (eID) which is similar to AADHAR.

Karo Sambhav – Packing Waste Management

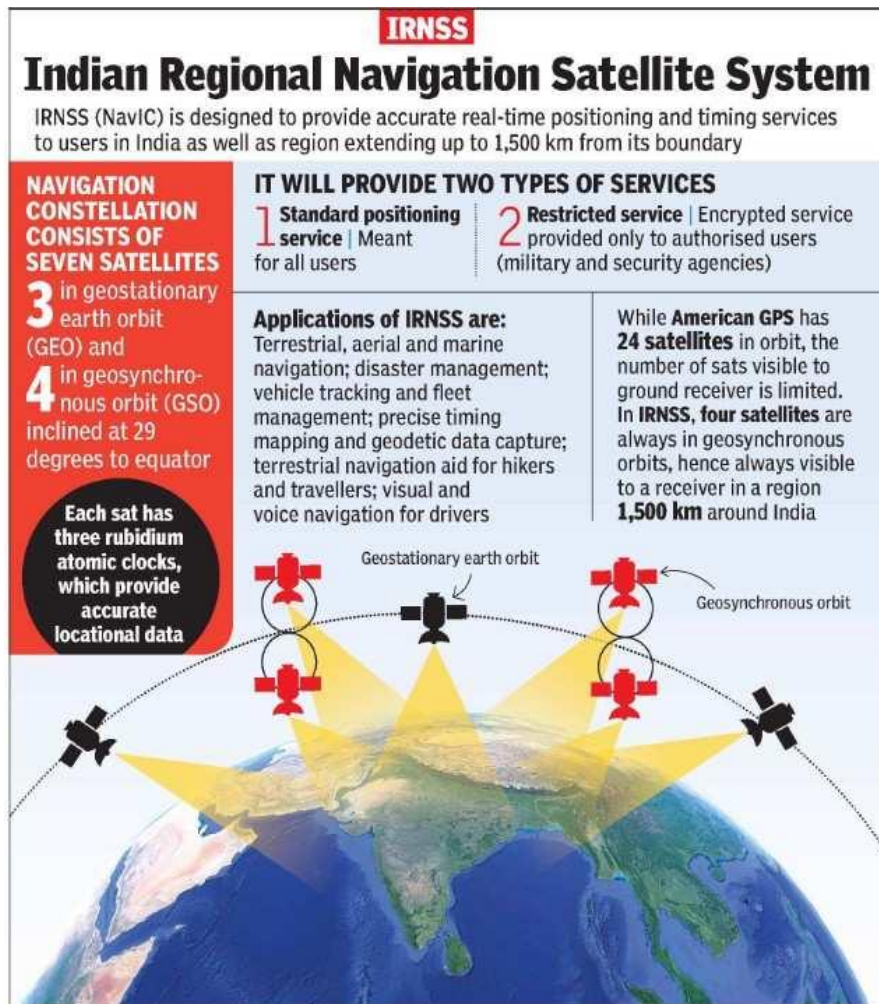
- ❖ Leading consumer products companies such as Coca-Cola India, PepsiCo India and Bisleri have launched a first-of-its-kind packaging waste management venture in the country.
- ❖ The venture is called Karo Sambhav.
- ❖ It will focus on creating a formal eco-system for collection of post-consumer packaging and optimising material recycling processes.
- ❖ Karo Sambhav is a producer-led and owned venture that aims to ensure that no recyclable packaging material ends up in landfills by 2025.
- ❖ Beverage industry states that nearly 90 per cent of the PET bottles are recycled and has plans to Ban 200 ml bottles.

SCIENCE AND TECHNOLOGY

NaVIC Approved for Use in Mobiles

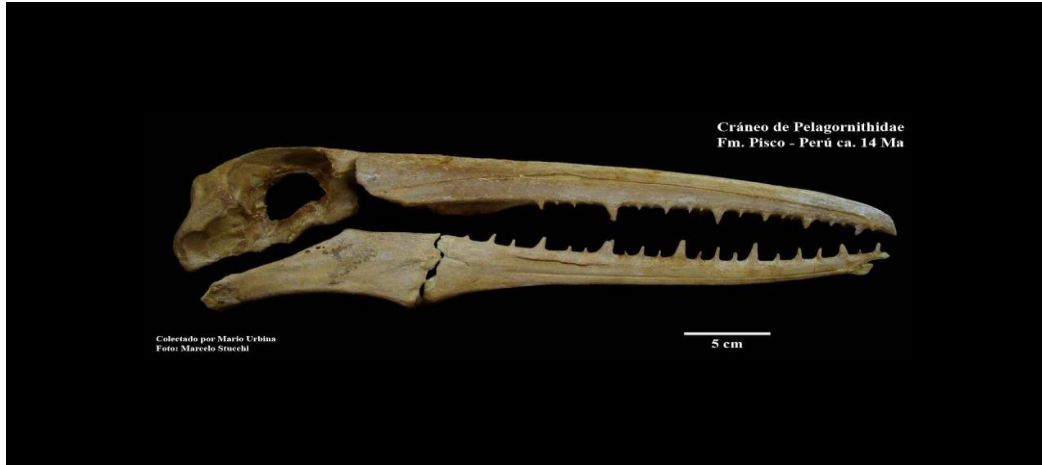
- ❖ Global standards body 3GPP which develops protocols for mobile telephony, has approved India's regional navigation system NaVIC (Navigation with Indian Constellation).
- ❖ NaVIC was developed by Indian Space Research Organisation (ISRO).
- ❖ IRNSS or NavIC is capable of providing accurate position information service to users across India and the region extending up to 1,500 km around the country.
- ❖ NavIC acceptance by 3GPP would bring NavIC technology to the commercial market for its use in 4G, 5G and Internet of Things (IoT).

- ❖ Manufacturers can now mass-produce navigation devices compatible with NavIC so that users of these devices can easily access desi GPS or NavIC signals.
- ❖ 3GPP currently has global navigation satellite system support from BDS (Chinese), Galileo (European), GLONASS (Russian) & GPS (US) for cellular positioning systems.



Bony Toothed Birds - Pelagornithids

- ❖ Scientists have discovered fossils of one of the world's oldest bird species in New Zealand.
- ❖ They had lived about 62 million years ago, soon after the dinosaurs died.
- ❖ The newly-discovered seabird fossil is named as Protodontopteryx ruthae.
- ❖ Earlier, bony toothed birds were thought to originate from Northern Hemisphere.
- ❖ It is now proven wrong because of this fossil from New Zealand.

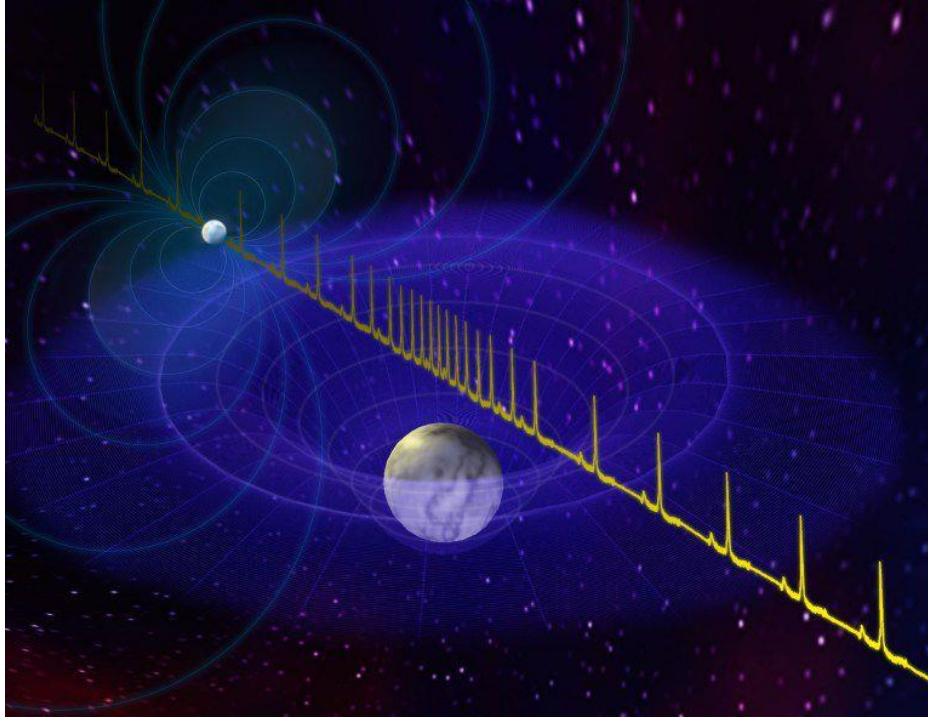


Most Massive Neutron Star - J0740+6620

- ❖ Astronomers observing a distant star system have identified what may be the most massive neutron star ever discovered.
- ❖ Neutron stars like the newly discovered J0740+6620 are the remains of dead stars.
- ❖ Stars run for millions or billions of years but eventually run out of fuel.
- ❖ Then they become one of the three
 - Smaller stars become white dwarfs (like Sun)
 - Larger stars collapse into black holes
 - Stars with mass equivalent to 8 and 29 solar mass become Neutron Stars

About J0740+6620

- ❖ MSP J0740+6620 is about 2.14 times more massive than sun.
- ❖ But it is less than 15 miles in diameter.
- ❖ The mass is determined using a principle called “Shapiro time delay”.
- ❖ Because of the extreme density of MSP J0740+6620 it might soon collapse into a black hole.



STATES

Tatpar App – Delhi Police

- ❖ Delhi Police has launched an app named “Tatpar”.
- ❖ It is a one-stop destination for access to over 50 citizen-centric services and amalgamates all the websites and mobile applications of Delhi Police.
- ❖ People can file an e-FIR, pay traffic challan, report a missing mobile phone, apply for police clearance certificates from the app itself.
- ❖ It has an SOS button to place a call on an emergency contact number (SOS) of choice or reach out to the Police Control Room at 100 with a single touch.

Crackers with QR Code – Delhi

- ❖ Delhi- NCR region will have crackers with a unique logo and QR code on the boxes for Deepavali 2019.
 - unique logo on the boxes to help people identify whether they are buying low-emission green crackers or the regular highly-polluting ones.
 - QR codes will have production and emission testing details
- ❖ These green crackers will have both sound and light.

- ❖ Supreme Court had earlier instructed that only green crackers should be burst in Delhi-NCR region.

Green crackers

- ❖ According to the Council of Scientific and Industrial Research following crackers are “green crackers”
 - firecrackers that cause 30-35% lower emissions of particulate matter (PM10 and PM2.5)
 - 35-40% lower sulphur dioxide and nitrogen oxide emissions
- ❖ They have low content of aluminium and use of barium salts and ash as a drying agent is banned in these crackers.

PERSONALITIES, AWARDS, AND EVENTS

National Geoscience Award 2018

- ❖ The National Geoscience Awards 2018 were conferred to 22 scientists across India for outstanding contributions in the field of geosciences, mining and allied areas.
- ❖ Parliamentary Affairs Minister Prahlad Joshi conferred the awards at New Delhi.
- ❖ The awards were given under 10 categories.
- ❖ The 2 main awards were
 - National Geoscience Award of Excellence 2018 to Prof. Syed Wajih Ahmand Naqvi for his significant global contributions in the field of aquatic biogeochemical research.
 - The Young Scientist Award-2018 was awarded to Dr. Sohini Ganguly from Goa University for her significant work in the fields of volcanology, geochemistry and petrology.



Category	Area	Awardees
National Geoscience Award For Excellence	Aquatic biogeochemical research	Prof. Syed Wajih Ahmad Naqvi
National Geoscience Awards	Mineral Discovery & Exploration category	Individual: Dr. Yamna Singh Team: Dr. Debjani Sarkar Mr. Prabhakar Keethaiah Ravi Mr. Pradipra Sur
	Groundwater Exploration	Dr. Jaseetha Raju Nandimadalam
	Mining Technology	Individual: Dr. Ashu Kumar Sinha Dr. Arun Kumar Singh Dr. Danda Srinivas Rao Dr. Raj Shekhar Singh
	Basic Geosciences	Individual: Dr. Parampreet Kaur Professor Jyotiskar Ray
	Applied Geosciences	Individual: Dr. Tajdarul Hassan Syed Dr. Vikrant Jain

	Geophysics/Applied Geophysics	Individual: Dr. Nittala Satyavani Mr. H.C. Gonda Team: Mr. H.C. Gonda Mr. H. Rajaram Dr. R.K. Singh Mr. Ramesh Kesavan
	Geo-Environmental Studies	Dr. Bahadur Singh Kotlia
	Natural Hazard Investigations	Dr. R. Jayagonda Perumal
Young Scientist Award	Petrology, volcanology and geochemistry	Dr. Sohini Ganguly

