

April - 10

TNPSC BITS

- ❖ The Tamil Nadu CM released a Keeladi augmented reality app.
 - It helps people from across the globe can view the 200 artefacts excavated in Keeladi in augmented reality and 3D mode.
- ❖ India's First quantum computing-based telecom network link between Sanchar Bhawan and National Informatics Centre became operational in New Delhi.
- ❖ The Reserve Bank of India's monetary policy committee (MPC) decided to keep the repo rate unchanged at 6.5% at the bi-monthly policy, released in April 2023.

TAMIL NADU

New scheme for government school students



**"முதலமைச்சரின்
திறனறித் தேர்வு திட்டம்"**

10ஆம் வகுப்பு படிக்கும், தேர்ந்தெடுக்கப்பட்ட 1000 மாணவர்களுக்கு மாதம் **ரூ. 1000** உதவித்தொகை.

11,12 ஆம் வகுப்பு முடிக்கும் வரை வழங்கப்படும்.

ஐஐடி உள்ளிட்ட முன்னணி கல்வி நிறுவனங்களில் பயிற்சி வழங்கப்படும்.

இந்த மாணவர்கள் உயர்க்கல்வி பயிலும் போது ஆண்டுக்கு **ரூ.12,000** உதவித்தொகையாக வழங்கப்படும்.



- ❖ Chief Minister M K Stalin launched Thiranari Thervu Thittam (Aptitude scheme).
- ❖ 1,000 students (500 boys and 500 girls) studying in class X will be chosen for this scheme.
- ❖ A stipend of Rs 1,000 will be provided every month until they finish Class 12.

- ❖ Students selected under this scheme will also get Rs 12,000 as stipend annually during their under-graduation and post-graduation.
- ❖ Under the initiative, IIT-M will connect one lakh students studying in rural locations of the State.
- ❖ Part of the 'Anaivarukkum IIT-M' (IITM for all) initiative, this outreach programme on STEM aims to motivate students to take up a career in semiconductor technologies.

NATIONAL

India Justice Report



- ❖ The India Justice Report (IJR) was initiated by Tata Trusts in 2019.
- ❖ This is the third edition.
- ❖ This report is based on overall data of 4 pillars of justice delivery namely Police, Judiciary, Prisons, and Legal Aid.
- ❖ In India Justice Report (IJR) 2022 the State of Karnataka has achieved the top rank among the 18 large and mid-sized States with populations over one crore.
- ❖ The State of Tamil Nadu has ranked in second position and Telangana in Third.
- ❖ The State of Gujarat has got the fourth position and Andhra Pradesh is at slot five
- ❖ The State of Uttar Pradesh is at rank 18 which is the lowest.



- ❖ The list of Seven Small States with a population less than one crore each, was topped by Sikkim.
- ❖ It has been followed by Arunachal Pradesh and Tripura.
- ❖ The State of Goa is at rank Seven which is the lowest.
- ❖ The Tamil Nadu Prison Department has bagged the first place.
- ❖ It is followed by Karnataka and Telangana.
- ❖ Uttarakhand and Uttar Pradesh were at the bottom rank.

Police - Population ratio in India

- ❖ Bihar and West Bengal have the lowest ratio of police personnel to per lakh population in the country at 75.16 and 97.66 respectively.
- ❖ The sanctioned strength of Bihar's police-population ratio is 115.08 while West Bengal's is 160.76.
- ❖ The ratio for the whole country as on January 1, 2022 of police personnel per lakh persons is 152.80 as per actual strength.
- ❖ But the sanctioned strength is 196.23 for the country.
- ❖ Tamil Nadu's sanctioned strength is 171.95 but the actual strength is 154.25.

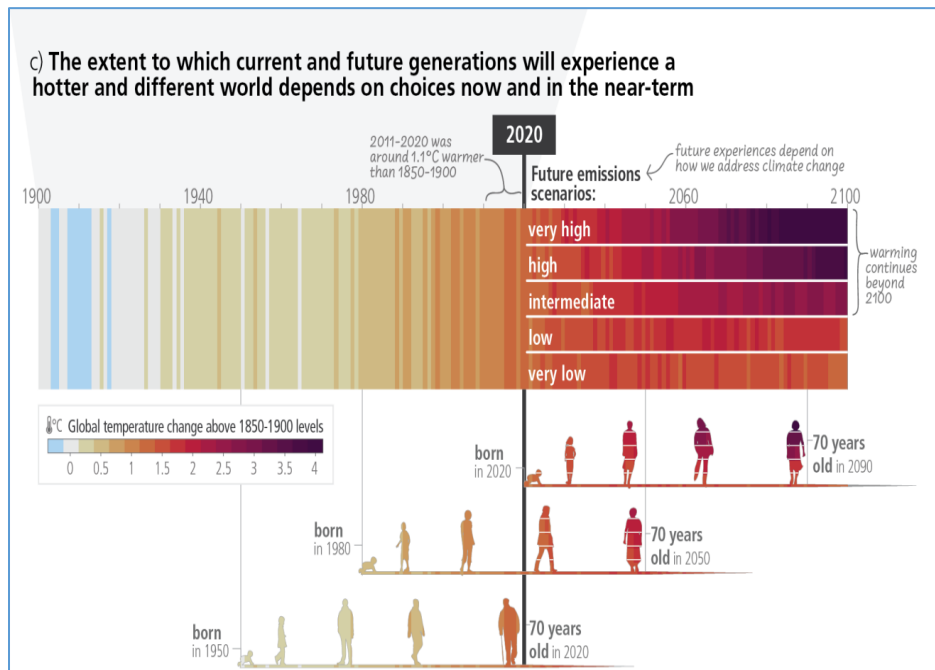
State	IJR	Overall	Police	Prisons	Judiciary	Legal Aid
Telangana	3	3	1	3	5	5
Tamil Nadu	1	3	1	10	1	12
Karnataka	2	14	1	14	12	16
Uttarakhand	1	15	2	17	15	17
Karnataka	3	1	2	2	2	2
Chhattisgarh	2	7	2	11	4	15
Punjab	1	4	3	16	2	3
Odisha	2	11	3	9	15	8
Andhra Pradesh	3	5	3	5	11	13
Odisha	3	10	4	11	13	10

INTERNATIONAL

IPCC Synthesis Report

- ❖ The Intergovernmental Panel on Climate Change (IPCC) has published its Synthesis Report of the Sixth Assessment Report (AR6).

- ❖ It is highlighting the urgent need for action to prevent global temperatures from exceeding the 1.5°C threshold.
- ❖ Global mean sea level increased by 0.20 m between 1901 and 2018.
- ❖ Human influence has likely increased the chance of compound extreme events since the 1950s.
- ❖ It includes increases in the frequency of concurrent heatwaves and droughts.
- ❖ Approximately 3.3 – 3.6 billion people live in contexts that are highly vulnerable to climate change.
- ❖ Between 2010 and 2020, human mortality from floods, droughts and storms was 15 times higher in highly vulnerable regions, compared to regions with very low vulnerability.



SCIENCE AND TECHNOLOGY

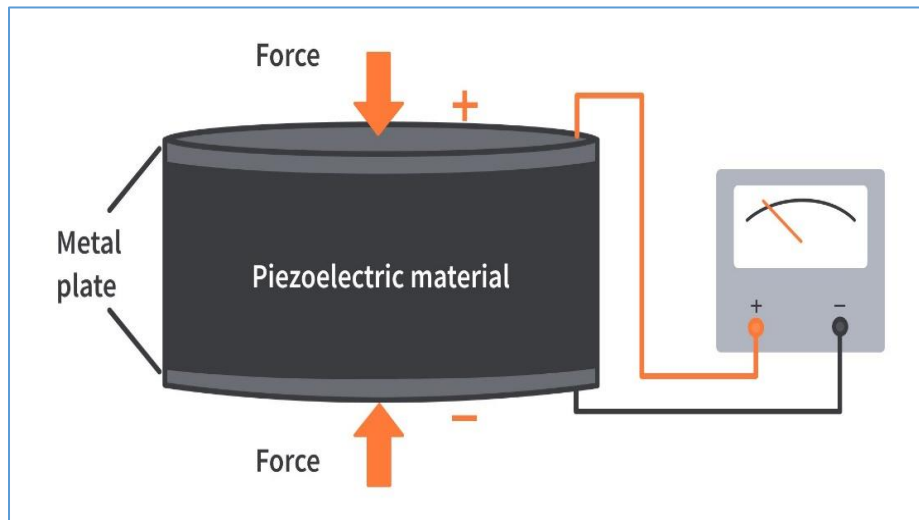
India's first Bauxite Certified Reference Material (CRM)

- ❖ National Aluminium Company Limited (NALCO) has successfully developed a Bauxite Certified Reference Material (CRM) in joint collaboration with Bhabha Atomic Research Centre (BARC).
- ❖ It is named as BARC B1201
- ❖ This is the first of its kind CRM in India and 5th in the World.
- ❖ A certified reference material is a particular form of measurement standard.

- ❖ Testing laboratories use CRMs to calibrate measuring instruments, evaluate test procedures and for quality control purposes.



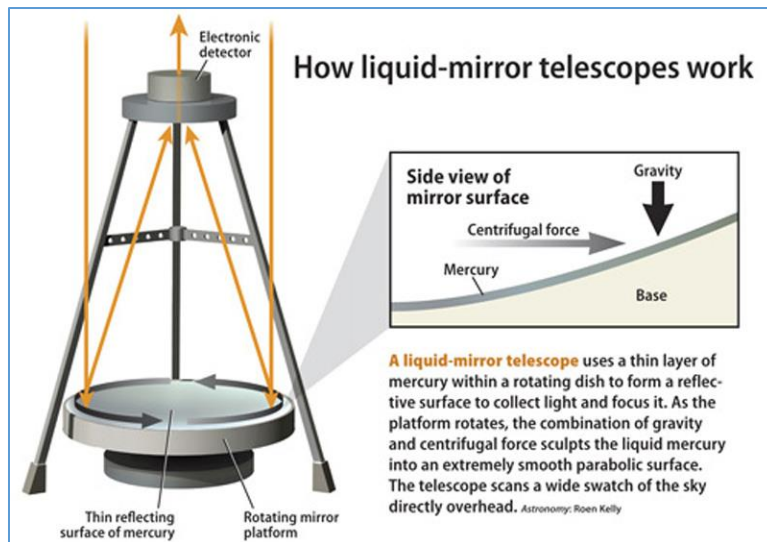
Piezoelectric Effect



- ❖ For the first time, scientists have reported evidence of the piezoelectric effect in liquids.
- ❖ The effect has been known for 143 years and in this time has been observed only in solids.
- ❖ The effect was found in
 - Pure 1-butyl-3-methyl imidazolium bis (trifluoromethyl-sulfonyl) imide and
 - 1-hexyl-3-methyl imidazolium bis (trifluoromethylsulfonyl) imide

- ❖ Both are ionic liquids (liquids made of ions instead of molecules) at room temperature.
- ❖ In the piezoelectric effect, a body develops an electric current when it is squeezed.
- ❖ Quartz is the most famous piezoelectric crystal.

Asia's largest 4-metre ILMT



- ❖ Asia's largest 4-metre International Liquid Mirror Telescope (ILMT) was inaugurated in Uttarakhand.
- ❖ The telescope is located at an altitude of 2,450 metre on the Devasthal Observatory campus of Aryabhata Research Institute of Observational Sciences.
- ❖ The observatory will explore the deep celestial sky, classifying objects from asteroids to supernovae, and space debris.

ENVIRONMENT

Long-Tailed and Smew Ducks

- ❖ The rare long-tailed ducks have been spotted in Wullar lake, Kashmir after over 84 years.
- ❖ These ducks sighted last time in Hokersar was in 1939 by F Ludlow.
- ❖ They are slim, colourful sea ducks with long tails.
- ❖ They fly quickly and low, often forming and reforming tight clusters.
- ❖ The long-tailed ducks migrate all the way to British Columbia on their way west from Alaska and Russia.

- ❖ Smews (*Mergellus albellus*) are medium-sized ducks that are part of the Anatidae family.
- ❖ The smew is a species found in both Eurasia and Europe.
- ❖ They rarely visit different parts of the Indian subcontinent.



STATES

Unseasonal Rains - Natural calamity



- ❖ The Maharashtra government decided to consider unseasonal rains a natural calamity, to provide relief to affected farmers in the State.
- ❖ The decision would help the administration to provide relief to farmers whose crops have been damaged due to untimely rain.
- ❖ A separate category was created for this.

- ❖ This is the first State in the country to consider unseasonal rains a natural calamity.

IMPORTANT DAYS

International Day of Conscience - April 05

- ❖ Conscience is the ability of a person to distinguish between what's right and what's wrong.
- ❖ It was launched at the United Nations, New York on February 5, 2019 by the Federation of World Peace and Love (FOWPAL).
- ❖ The Kingdom of Bahrain had submitted a draft resolution titled "Promoting the Culture of Peace with Love and Conscience."
- ❖ This year event celebrated with the theme - 'Building a Culture of Peace'.

