# Daily Current Affairs





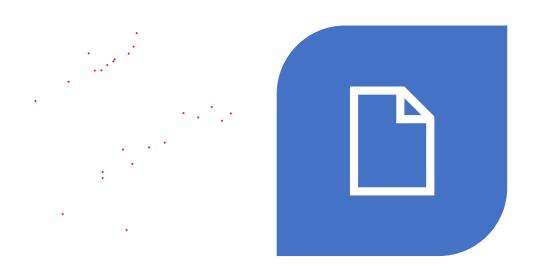








# Download class24





**PDF** 

10 MCQ QUIZ

We must all suffer one of two things: the pain of discipline or the pain of regret.

- Jim Rohn

Eight killed in blast at firecracker unit in A.P. STATES » PAGE 3





Russia targeted Indian firm's warehouse: Kyiv Stagnant incomes. rising prices City residents struggle to meet expenses



MI pips DC in thriller, RCB eases past RR SPORT » PAGE 16



### Top Trump aide and NSA puts off his visit to India

### NEW DELHI

breaches by the National breaches by the National Security Council, U.S. National Security Adviser Michael Waltz has put off his visit to India slated for next week, a number of sources said. >> PAGE S

### 16 arrested after clashes during procession in M.P.

arrested so far in connection with clashes that took place communities during Hanuman Jayanti procession in Madhya Pradesh on Saturday, said the police on Sunday to page 4

### China tells U.S. to cancel reciprocal tariffs completely

BEIJING China on Sunday called on the United States to "completely cancel" its reciprocal tariffs after Washington announced exemptions for key chipmakin electronics. to PAGE 14

### 21 killed as Israel attacks Gaza on Palm Sunday

DEIR AL-BALAH A wave of Israeli strikes across Gaza on Sunday hit a hospital, a municipal building, a home, killing at least 21 people, as Israel vowed to expand its security presence in the strip, on Palm Sunday, drawing

# CAPF deployed in Murshidabad; situation under control, says DGP

Congress calls for all-party meeting, BJP takes to the streets in Kolkata, Trinamool alleges spread of misinformation; over 150 arrested in connection with the violence: BJP MP urges Amit Shah to declare select districts a disturbed area

eventeen companies of the Central Armed Police Forces (CAPF) were deployed in Murshi-dabad district of West Ben-

that claimed three lives on Saturday.

Over 150 people were arrested, and one person who sustained a builet in State-run health facility, the police said.

Director-General of Pol-ice, West Bengal, Rajeew Kumar held meetings with senior police officials in Murshidabad. He said the

Murshidabad. He said the situation was "yery much under control". Ananda Roy, Superin-tendent of Police, Jangipur, appealed to people not to believe in rumours and ap-



proach the police in case they need any clarifica-tions. The SP said 155 persons had been arrested so far in connection with the

A total of 23 high-rank-ing officers from the State police and other agencies have been deployed in the violence affected district

Karni Singh Shekhawat, Inspector-General of Pol-ice, Border Security Force, was among those present in the district. Nine compa nies of the BSF have been moved to the strife-torn

Eighteen police person-nel were injured in the

Congress MP for the Malda Dakshin constituency un-der which the violence-affected areas of Murshida-bad district fall, said that he and Congress leader Ad-hir Ranian Chowdhury had called for an all-party meeting on the violence. Almost the entire leakata on Sunday in protest gainst the violence. BJP MP Jyotirmoy Singh

Home Minister Amit Shah urging the Centre to de-clare select border districts of West Bengal "disturbed

of West Bengal "disturbed areas". BIP president Su-kanta Majumdar alleged that the violence was a "conspiracy of radical out-fits such as the Popular Front of India [PFI] and the Students Islamic Move-ment of India [SIMI]". A section of IJI" leaders

also claimed that hundreds of Hindus from Dhulian in Murshidabad have been forced to take shelter across the river at Baish-nabnagar in neighbouring

# Kerala will seek to have pending Bills deemed as passed

Armed with the Supreme ment on Bills kept pending by the Governors and the President, Kerala is set to ontend in the top cour

contend in the top court that all the Bills pending with the President be the pending with the President be the pending to the the pending to the pending to

assent to the Bills was "illegal" and "erroneous in

Kerala had earlier approached the top court against similar acts of former Governor Arif Muhammad Khan. It had also moved the court against The State is set to contend in the top court that the action of former Governor

mu's act of withholding as-sent to a few Bills. Kerala will contend that

Kerala will contend that the Bills pending with Ms. Murmu, including those for which she had withheld assent, be deemed as passed since the very act of the Governor sitting on them and later referring them to the President was "erroneous in law". The State will also highlight the fact that the President had assigned no reasons for withholding consent for

The SC, legal expert pointed out, had made it clear that the President would be required to assign clear and detailed rea-sons while withholding as sent to a Bill.

# Baisakhi cheer



# Pause, review, and repeal amendment to the RTI Act: Ramesh urges Vaishnaw

The judgment

of India) reinforces that safeguarding personal privacy and promoting institutional

transparency are not

JAIRAM RAMESH

mutually exclusive but are jointly essential

# The Hindu Bureau

In a letter to Union Information Technology Minis-ter Ashwini Vaishnaw on Sabha member Jairam Ra-mesh warned that the pro-posed amendment to the Right to Information Act, 2005, would have a "devas-tating" effect on the tran-sparency law. He urged Mr. Vaishnaw to "pause, re-view, and repeal" the chance

change.

The letter was in response to Mr. Vaishnaw's assurance to an earlier letter by Mr. Ramesh, in which the Congress leader had expressed concern over Section 44 (3) of the Digital Personal Data Protection (DPDP) Act, 2023, which would place a blanket ban on sharing any "personal information" with RTI

that is specifically required to be disclosed (such as sal-aries of public officials) would remain accessible.

# Four points Making four points by way of a counter-response to the Minister, Mr. Ramesh

said: "I would therefore strongly again urge you to pause, review, and repeal the amendment made to the ATI Act, 2005. As you would have seen, this issue has also exercised a broad spectrum of people from civil society, academics, and political parties." Along with Mr. Ramesh, 130 Opposition MPs have signed another letter de-manding a reversal of the amendment.

(Puttaswamy v. Union

Civil society groups voiced concerns regarding the amendment, which would strike out all but the first six words in Section 8(1)(j), which exempts "in-formation which relates to formation which relates to personal information the disclosure of which has no activity or interest, or which would cause unwarranted invasion of the primare in the convinced that the "larger officials and the convinced that the "larger disclosure of such information: Provided that the information which cannot be or a State Legislature shall

or a State Legislature shall not be denied to any person". Thanking the Union Mi-

nister for his response, Mr. Ramesh said, "I now wish

Ramesh said, "I now wish to make four points." "First, Section 3 of the DPDP Act, 2023, cited in the property of the pro-disclosures under the RTI Act 2005, is wholly irrele-vant since Section 8(1) of the RTI Act, 2005 itself has been amended drastically, he said. "Section 3 of the

DPDP Act will now only protect disclosures as per the amended RTI Act, which exempts all personal information from being

accessible."
Second, the operation of the RTI Act. 2005 - in formed by several judg-ments by the Supreme Court and various High Court and various High Courts – has demonstrated that the law is able to with-hold the disclosure of per-sonal information which has no relationship to any public activity or public in-terest, Mr. Ramesh said. Third, the deletion of the proviso in Section 80) of the RTI Act which recog-nises the citizens' right to

nises the citizens' right to information as being at par with that of legislators is ed", the Congress general secretary said in the letter that proviso is applicable not just to the personal in-formation exemption, but all exemptions in Section 8(1) of the RTI Act, 2005.

# Kerala temple opens sacred space to all sections

Previously restricted to specific communities, the inner quarter of the centuries-old Pilicode Rayaramangalam temple in Kasaragod district has been opened to all sections of society for the first time following a reformist campaign

The Hindu Bureau

sacred inner quarter - of the centuries-old Pilicode Rayaramangalam temple in Kasaragod district of Kerala for the first time ending restrictions based

Previously restricted to Previously restricted to specific communities, the sacred space in the temple managed by the Malabar Devaswom Board was opened to all communities following a campaign led by a reformist



a few other com were allowed entry during the festival period. He said the initiative

to enter the space earlier. Maniyani, Nair, Vaniya and

Tantri had responded that worshippers could pray near the inner quarter without affecting rituals, access into it came after the festival ceremonies concluded, he added. The Janakiya Samithi spearheaded by the Ninay Purush wayaamsahaya Sangham men's self-help group, sained momentum with confirmed that the inne ts resolution advocating for universal entry rights This was followed by the

guarter will remain open to all devotees in the This was followed by the formation of the Janakiya Samithi, a people's committee comprising socio-cultural and political organisations, which petitioned the Tantri (head priest), State Devaswom

to all devotees in the coming days, reinforcing that the change was not symbolic, but permanent. Sunday's event is being hailed as a moral and cultural victory, a sign that age-old fituals must evolve with time to reflect equality and inclusion.

## Dharmadam is Kerala's first poverty-free constituency

# The Hindu Bureau

Kerala Chief Minister Pin: rayi Vijayan on Sunday de-clared Dharmadam Kera-la's first extreme poverty-free constituency, paving the way for the State to achieve full eradi-

State to achieve full eradication of extreme powerty by November 1, 2025. The Chief Minister, speaking at an event at the Pinarayi Convention Centre, said the milestone marks a significant step to eliminate extreme poverty through coordinated inter-ventions. The project idenliving in extreme poverty and implemented plans to improve their lives.

# Eight killed in blast at firecracker unit in A.P.: Naidu orders inquiry

Condition of two of the eight injured is said to be critical; Chief Minister to extend ₹15 lakh as ex gratia to the next of kin of the deceased, says Home Minister Anitha; exact cause of accident yet to be ascertained; Collector to conduct probe

ight persons were killed and as many injured in an explo-sion at a firecracker unit at Kailasapatnam of Anaka-palli district in Andhra Pra-desh on Sunday.

As per the district pol-ice, the blast occurred 45 minutes past noon. Sixteen workers were present on the unit's pre-mises at the time, as per preliminary enquiries. The



accident site is located about two-km from the vil-lage, and residents rushed there on hearing the blast. Later, the police, along

with emergency services and fire tenders, rushed to the spot and doused the fire. The rescue operations were monitored by District

Collector Vijaya Krishnan and Superintendent of Pol-ice Tuhin Sinha.

ice Tuhin Sinha.
The injured persons were shifted to a Primary were shifted to a Primary then to hospitals in Narsipatram and Anakapalli, shifted to King George Hospital in Visakhapatram for advanced treatment.

hifted to King George Hospital in Visakhapatram for advanced treatment. However severely injured with 90%, 50% and 30% burns, respectively, while another fifth person had no malor fifth person had no malor fifth person had no malor fifth person had no malor

fifth person had no major injuries, doctors said. Meanwhile, Chief Minis-

ment for the first time, were taught to make voice calls as well as video calls using smartphones, use WhatsApp, access govern-ment services, carry out internet banking and use popular social media

ter N. Chandrababu Naidu has asked the Collector to conduct an inquiry and submit a report.

Home Minister V. Anitha

and Anakapalli Member o and Anakapalli Member of Parliament C.M. Ramesh inspected the accident site. Ms. Anitha told reporters that though the exact cause of the accident was yet to be ascertained, they suspect it to be the failout of "extra pressure applied in the preparation of the firectackers has agreed to provide US labb as expra-

provide ₹15 lakh as ex gra-tia to the next of kin of the deceased," she added.

# BJP leader defends Shinde amid 'discord' within ruling alliance

Mungantiwar on Sunday extended support to Depu-ty Chief Minister Eknath Shinde amid reports of discord within Maharashtra's

account of this Maharashtra's ruling Mahayuti alliance. The development comes amid speculation that Mr. about the functioning of the alliance during Union Home Minister Amit Shah's Sources indicate grow-ing discontent in Mr. sources indicate grow-tower two key issues: delays in clearing files related to Sena-held Ministries cur Sena-held Ministries cur yellow the Ministries cur yellow the Ministries and the Mr. war, who controls the war, who controls the finance portfolio; and Chief Minister Devendra Fadnavis's reversal of cer-

tain decisions taken during Mr. Shinde's previous te-nure as Chief Minister.

for an event commemorat-ing Chhatrapati Shivaji Maharaj's 345th death an-

the alliance circles.

Mr. Mungantiwar dismissed there was any contentious discussion between Mr. Shah and Mr. Shinde. "Mr. Shinde is a capable leader who would address concerns directly with Deputy CM Pawar rather than through other channels," the BIP leader

Shinde dismisses buzz Shinde dismisses buzz
Mr. Shinde too dismissed
the buzz of any rift within
the Mahayuti and said everything is hunky-dory in
the ruling alliance. He said
issues, if any, will be sorted
out threath discussions.

something he will directly talk to me or the Chief Mi tions," Mr. Pawar told

# All logged in, Kerala to be declared fully digital literate hard nut to crack. members of the Library Council, and youth organi-sations coordinated to organise classes for them in-summer construction of the coordinated work sites, libraries and Kudumbasree groups. "After the training, the trainees were evaluated. As many as 98% of the part telipants passed the eval-

# S.R. Praveen

For the past few months. For the past few months, 67-year-old C. Sarasu, a Ma-hatma Gandhi National Ru-ral Employment Guaran-tee Scheme (MGNREGS) worker from Pullampara in Thiruvananthapuram, has-been using her leisure time to video-call her relatives and watch YouTube vide-

os.

In Muvattupuzha, 75-year-old Krishnakumar is now using WhatsApp to mobilise people from the neighbourhood for an anti-

hard nut to crack.
The two are now part of
the over 21 lakh people
who have completed the
who have completed the
partment's "Digi Rerala'
digital literacy programme, making Kerala
the first State to achieve total digital literacy. Speak
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of the state of the state of the
lister of th

nister M.B. Rajesh said the

People of all ages
"We have achieved much
beyond the guidelines stipulated by the National Digi-tal Literacy Mission for dig-



ital literacy, which require training to be imparted only for those up to 60 years of age. This programme has included people of all ages," Mr. Rajesh says. The Digi Kerala idea be-

gan as a pilot initiative of the Pullampara grama pan-chayat in the capital in 2022 to impart digital lite-racy to all residents. The

The government later de-cided to expand the pro-gramme across the State. Through surveys, 21.88 lakh participants were identified as digitally illiter-ate. A large army of 2.57 lakh volunteers including lakh volunteers, including National Service Scheme members, Kudumbasree members. Kerala State Lit-

# the figures are accurate. In wards where over 10% va-riation was seen, re-train-ing was conducted. Offline training was provided in areas of low connectivity," says an official who coordinated the training pro-

uation. A party verification was done by the Statistics Department to ensure that

# + Waking up to plastic 'konna'



# SC sub-categorisation into 3 groups takes effect in Telangana from today

ation of the Scheduled Caste communities into three groups will come into effect in Telangana from Monday, coin-ciding with the birth anni-versary of Dr. B.R. Ambedkar.

Ambedkar.

A Cabinet sub-commit-tee, headed by Irrigation and Civil Supplies Minister N. Uttam Kumar Reddy N. Uttam Kumar Reddy and co-chaired by Health Minister C. Damodar Raja-narsimba, convened a meeting with senior offi-cials on Sunday for giving final touches to the Go-



Chief Minister A. Revanth

Reddy.
Mr. Uttam Kumar Reddy
said the government finalised the order keeping in
when the recommendaised the order keeping in view the recommenda-tions made by the one-man commission headed by the retired judge Justice Sha-meem Akhter. The categorisation of 59

sub-castes among the SCs into three groups was ta-ken up on the basis of the backwardness of the SC

groups.

The first group comprised 15 sub-castes that were the most backward and made up 3.288% of the

vide 1% reservation to these sub-castes. The second group com-prising 18 sub-castes con-stituting 62-74% of the pop-ulation and in receipt of marginal benefits, had been given 19% reservation sub-castes and constituting

33.96% of the population and found to be relatively forward compared with other groups, was given 5%

reservation.
Mr. Uttam Kumar Reddy
recalled that the State government had constituted
the one-man commission
immediately after the Supreme Court's historic verdict on categorisation, and
the commission conducted

## 1.978 boats anchored as fishing ban starts in Vizag

# The Hindu Bureau

A total of 1.978 boats will red along the 24km-long Visakhapatnam coast between Bhimili and 61-day annual fishing han

6i-day annual fishing ban period starting from April 15 to June 14. The ban, aimed at sus-taining the fishing indus-try, will see 675 mechan-ised boats anchored at the fishing harbour. With the ban, fishermen are facing financial chal-lenges and have yet to re-ceive the Matsvakara Bha-ceive the Matsvakara Bhaceive the Matsyakara Bha-rosa's financial aid of rosa's financial aid \$20,000 for last year.

# During caste census in Karnataka, some desisted from giving details, some did not know their caste Sharath S. Srivatsa

While the caste-wise popu-lation identified in the Sowition identified in the to-cio-Economic and Educa-tional Survey (caste ceman) conducted by the solution of the conducted by the provide caste details dur-ing the census or did not the details.

A total of 73,399 fami-lies, including \$3,241 in ur-ded for about 2.53 lakin (including 1.12 lakin wo-men), or about 0.425%, of the State population, re-

Fact sheet Total projected popul People who refused to identify their cast People who said they are 'caste-free' People not knowing their caste Castes and communities that could not be identified

fused to identify their caste fused to identify their caste during the enumeration, show data available in the show that available in the dabinet on Friday.

The full report is yet to be released by the govern-cused at a special Cabinet meeting on April 17.

As many as 35,845 families, including 27,535 living to state that their numbers

ed population of 6.35 crose in Karnataka from about 1.35 crose households were in Karnataka from about 1.35 crose households were conducted in 2015. The survey is being seen as an important document conversal of the survey is being seen as an important document conversal of the survey is being seen as an important document according to the survey is being seen as an important of the survey in the survey is survey in the survey in the survey is survey in the survey in the survey in the survey is survey in the survey themselves under the "if at

have reduced or the names of the castes have gone all does not know the caste" category, Their pop-ulation is pegged at 1.94 lakh or about 0.324% of the wrong.
As many as 5.98 crore people of about a project-ed population of 6.35 crore total population. Castes and communities could not be identified for 3,755

not be identified for 3,755 persons belonging to 967 households in the State. Commission sources said that those who did not reveal or did not have castes are not part of the final number calculated for enumeration.

"Some people did not know castes because of nitantine Some castes were nature. Some castes were

we had drafted. Moreover, we cannot compel anyone to provide details," they

# Differences emerge over caste census in Karnataka Congress

Differences seem to be cropping up in the Karna-taka government and the ruling Congress over the Socio-Economic and Edu-

Socio-Economic and Edu-cational Survey report ahead of the Cabinet meet-ing on April 17.
On Sunday, senior Lin-gayat leader and Heavy In-dustries Minister M.B. Patti claimed that the Lingayat population in the State was more than one crore as the construction of the con-cated in the survey report. "It is not a simple issue. It is not the mistake of H.

Kanathraj [Commission].



However, our population is more than one crore," the Minister said.

# All logged in, Kerala to be declared fully digital literate

# S.R. Praveen

THIRUVANANTHAPURAM

For the past few months, 67-year-old C. Sarasu, a Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) worker from Pullampara in Thiruvananthapuram, has been using her leisure time to video-call her relatives and watch YouTube videos.

In Muvattupuzha, 75year-old Krishnakumar is now using WhatsApp to mobilise people from the neighbourhood for an antidrugs campaign. Until recently, both of them were "digital illiterates" for whom technology was a hard nut to crack.

The two are now part of the over 21 lakh people who have completed the Local Self-Government Department's "Digi Kerala" digital literacy programme, making Kerala the first State to achieve total digital literacy. Speaking to The Hindu, LSG Minister M.B. Rajesh said the government was waiting for President Droupadi Murmu's confirmation for an event to make the official announcement.

# People of all ages

"We have achieved much beyond the guidelines stipulated by the National Digital Literacy Mission for dig-



**Bridging the gap:** Over 21 lakh senior citizens completed the government's 'Digi Kerala' digital literacy programme. R.K. NITHIN

ital literacy, which require training to be imparted only for those up to 60 years of age. This programme has included people of all ages," Mr. Rajesh says.

The Digi Kerala idea be-

gan as a pilot initiative of the Pullampara grama panchayat in the capital in 2022 to impart digital literacy to all residents. The trainees, most of whom were using digital equipment for the first time, were taught to make voice calls as well as video calls using smartphones, use WhatsApp, access government services, carry out Internet banking and use popular social media platforms.

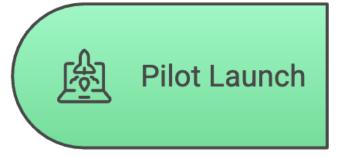
# Classes by volunteers

The government later decided to expand the programme across the State. Through surveys, 21.88 lakh participants were identified as digitally illiterate. A large army of 2.57 lakh volunteers, including National Service Scheme members, Kudumbasree members, Kerala State Literacy Mission Preraks,

members of the Library Council, and youth organisations coordinated to organise classes for them in households, MGNREGS work sites, libraries and Kudumbasree groups.

"After the training, the trainees were evaluated. As many as 98% of the participants passed the evaluation. A party verification was done by the Statistics Department to ensure that the figures are accurate. In wards where over 10% variation was seen, re-training was conducted. Offline training was provided in areas of low connectivity," says an official who coordinated the training programme.

# Kerala's Digital Literacy Initiative



The initiative begins in Pullampara grama panchayat in 2022.

Over 21 lakh people complete digital literacy training.

**Training Completion** 

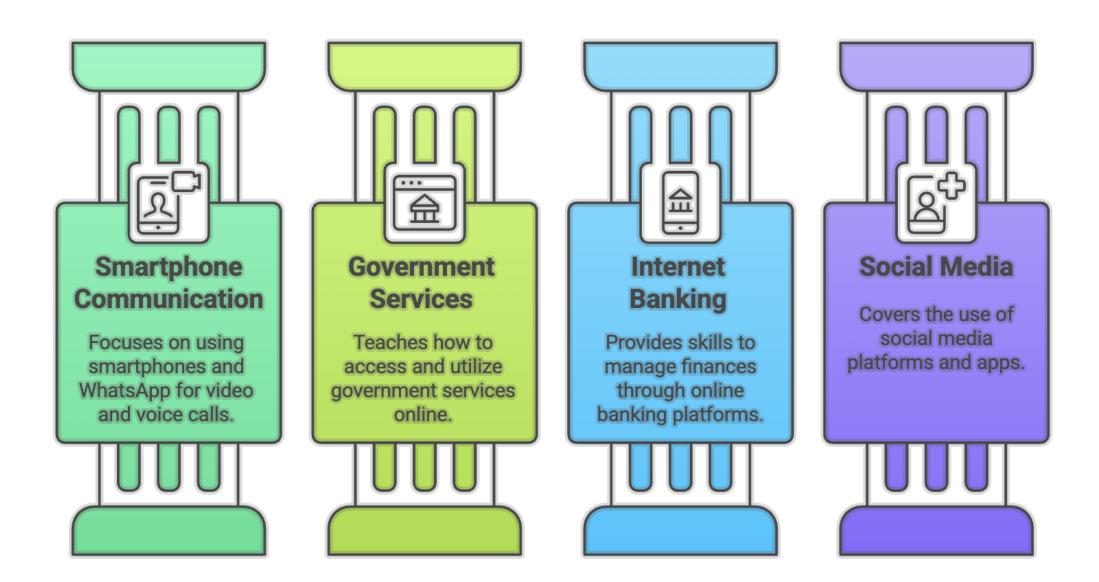




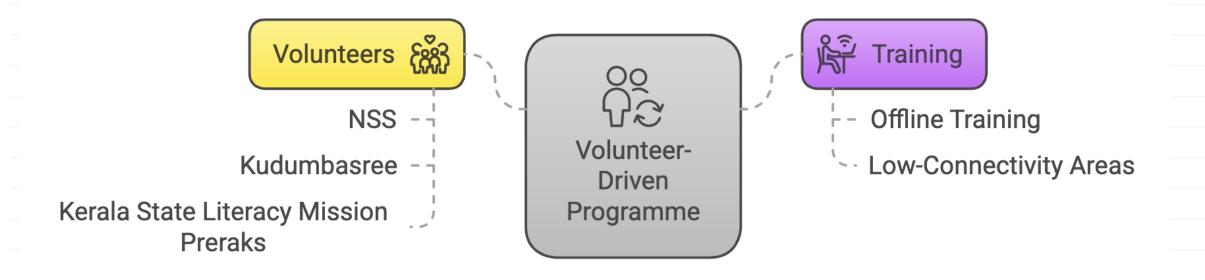
Official Declaration

President Droupadi Murmu's confirmation is awaited for the official announcement.

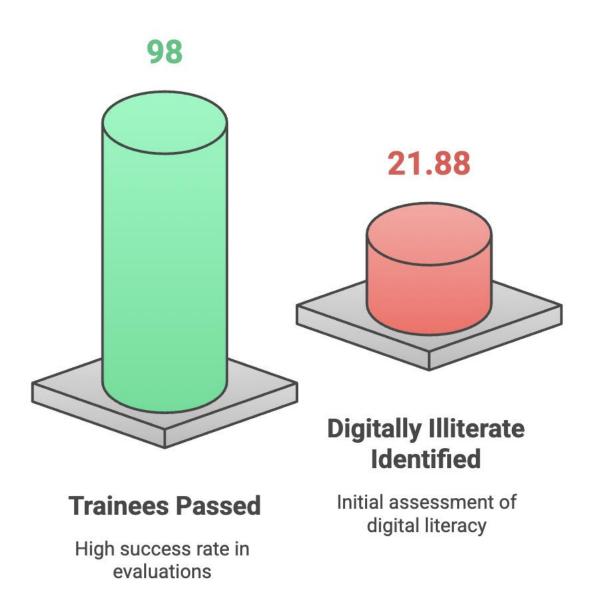
# **Empowering Communities Through Comprehensive Digital Literacy Training**



# Volunteer-Driven Programme Implementation



# Digital Literacy Training Program Results



# Q. With reference to Kerala's digital literacy mission, consider the following statements:

- 1. Kerala is the first Indian state to achieve total digital literacy.
- 2. The 'Digi Kerala' programme initially targeted only citizens below 60 years of age.
- 3. The digital literacy campaign was implemented primarily by IT professionals hired by the state government.
- 4. The campaign began as a pilot initiative in a grama panchayat.

# Which of the above statements is/are correct?

- (a) 1 and 2 only
  - **(b)** 1 and 4 only
  - (c) 2 and 3 only
  - (d) 1, 2 and 3 only

# Dharmadam is Kerala's first poverty-free constituency

# The Hindu Bureau

KANNUR

Kerala Chief Minister Pinarayi Vijayan on Sunday declared Dharmadam Kerala's first extreme poverty-free constituency, paving the way for the State to achieve full eradication of extreme poverty by November 1, 2025.

The Chief Minister, speaking at an event at the Pinarayi Convention Centre, said the milestone marks a significant step to eliminate extreme poverty through coordinated interventions. The project identified 64,002 individuals living in extreme poverty and implemented plans to improve their lives.

# INBRIEF



## FPIs withdraw ₹31,575 crore from equities this month

Foreign investors have pulled out ₹31,575 crore from the country's equity markets so far this month, in the wake of turbulence created by sweeping tariffs imposed by the U.S. on most nations, including India. This came following a net investment of ₹30.927 crore in the six trading sessions from March 21 to 28. This infusion helped reduce the overall outflow for March to helped reduce the overall outflow for March to 5,975 crose, according to data from them, this this marks a notable improvement. In February, foreign portfolio investors (FPIs) took out 524,574 crore, while in January, the outflow was even higher at 678,027 crore. This shift in investor

## 2 operatives of terror module held with explosives in Punjab

Two operatives of a terror module were arrested with a 2.8-kg improvised explosive device (IED) containing 1.6 kg of RDX and a remote control, a senior Punjab police officer said on Sunday. Punjab Director General of Police (DCP) Gaurav Yadav said the accused – identified as Jagga Single. Yadav said the acrissed — identified as Jagga Singh and Manjinder Singh — were key operatives of the terror module operated by Germany-based Gurpreet Singh, alias Goldy Brillon, who is a close associate of Goldy Brar-Lawrence Bishnoi gang. Preliminary investigation revealed that the IED was intended for a targeted terror attack, he added. A case has been registered under the Explosive Substances Act. Mr. Yadav said the NIA has declared a reward of ₹10 lakh on Dhillon. →

# Punjab, Haryana farmers eye bumper wheat harvest after a favourable winter

Experts say the yield in both States could surpass the figures of 2023-24: untimely rain and hailstorms over the past two days have raised concern that the standing crop may be damaged

### Vikas Vasudeva

avourable winter weather conditions during the rabi seaduring the rabl season in the key wheat-producing States of Punjab
son in the key wheat-producing States of Punjab
to boost wheat yields this
harvest, experts say. Ho
hailstorms in parts of both
States ower the past two
days have raised concern
days have raised concern
potential damage to the
standing crop, which could
lead to the could be the could
lead to the could be the could
be the could be the could
be the could be the could
be the could be the could
commenced in Punjab and

commenced in Punjab and Harvana, According to goernment data, wheat production in Punjab in 2023-24 was over 181 lakh tonnes, while Haryana saw nearly 124 lakh tonnes of wheat output. Agricultural experts expect the harvest in both States to be higher than that of the previous

than that of the previous year. Ratan Tiwari, Director, Indian Institute of Wheat and Barley Research, Kar-nal, Haryana, said the two States were heading for a good harvest this season on account of the preced-



outskirts of Gurugram on April 4. Pr

ing favourable weather

"Weather conditions were conducive all through the winter. Temperatures, particularly the minimum [temperature], remained favourable. Secondly, the days were relatively bright. days were relatively bright, and there were fewer foggy days when compared with the previous years. Although the maximum temperature, and the season of the maximum temperature, climate resilient varieties have sustained well," Mr. Twart told The Hindu.
"Last year, the average yield in Punjah was 50 quintal per hectare. This

year, it could be over 60 wheat production. Inter-mittent, timely rains have uintal per hectare. Simiresulted in good develop-ment of grain, which will boost the per-hectare yields of wheat," Mr. Rangi larly, last year, the average yield in Haryana was around 46 quintal per hectare, which this year could go up to 50 quintal per hectare," he added. id.
Punjab and Haryana are

Thrives in cold weather P.S. Rangi, agricultural expert and former adviser-ers Commission, explained that wheat is a tempera-ture-sensitive crop and thrives in cold conditions. "This time, cold conditions have prevailed during the major contributors of wheat to the Central pro-curement pool. "There was fairly widespread rain, divinds during the past 48 hours in parts of Punjab and Haryana. However, clear weather conditions are expected now in the coming days." Surinder Paul, Director, IMD, Chan-digarh, said. entire crop season, which is a good sign for bumper

# The Parliamentary Stand-ing Committee on Rural Development has recom-mended an independent survey to assess the effec-tiveness of the Mahatma Gandhi National Rural Em

delays in wage payments

fulfilling its intended goal

The bands of the con-cept of the con-cluding day of the Budget Session of Parliament. The panel, headed by Congress MF Saptagir Sanicar Ulaka, wey should focus on the ne-cessary option to the con-cept of the con-tent of the con-cept of the con-tent of the con-cept of the con-tent of th hainling its intended goal of social and economic in-clusion," the report said.

The panel also stressed the need to revamp the scheme, keeping in view the "changing times and emerging challenges".

"Thickness the said of emerging challenges".
"This committee urges the
Ministry to explore the options that could increase
the number of guaranteed
"This days under cessary policy reforms, and should be introduced working days under MGNREGA to at least 150 based on the insights from days from the current 100 the survey.

Undertake survey to assess MGNREGS

The Hindu Bureau

doyment Guarantee scheme (MGNREGS) and

This survey, the panel said, should focus on work-

effectiveness: panel

Equal opportunities
The panel also said that
despite the stated objective
of the scheme to uplift
marginalised communities, the participation of women workers and those from the Scheduled Castes from the Scheduled Castes and the Scheduled Tribes remained "inconsistent across districts". "A district-wise study must be conducted to en-sure that these communi-ties receive equal work op-

days," the report said. nel also pointed out that the scheme has been plagued by chronic delays in wage payments, leading to uncertainty for the of these payments was es-sential to maintain trust in interrupted execution of work.

# India, Africa maritime engagement exercise begins off Tanzania coast

the large-scale multilateral exercise Africa India Key Maritime Engagement (AI-KEYME) began on Sunday off Dar-es-Salaam, Tanza-

Coinciding with the naval exercise, offshore pa-trol vessel INS Sunayna, designated as Indian

designated as Indian Ocean Ship (IOS) SAGAR and sailing with 44 naval personnel from nine friendly nations, reached "AIKEVME aims to develop collaborative solutions to common regional maritime challenges. This maiden initiative by the Indian Navy seeks to enhance liveroperability and syner-



INS Chennol arrives in Dar-es-Salaam for the inaugural edition of

gise combined operations among the maritime forces of partner nations," the Na-vy said in a statement. "It also highlights the strong and friendly rela-tions between India and the African nations." The

six-day AIKEYME exercise from April 13 to 18 includes participation from Como-ros, Dibouti, Kenya, Mada-gascar, Mauritius, Mozam-bique, Seychelles and South Africa, alongside the co-hosts India and Tanza-

mia. "This initiative aligns with the vision of Prime Minister Narendra Modi, promoting Mutual and Holistic Advancement for Se-curity and Growth Across Regions (MAHASAGAR)," the Navy said.

The Indian Naval Ship Chennai (destroyer) and INS Kesari (Landing Ship Tank - Large) arrived in Dar-es-Salaam ahead of the Dar-es-Salaam ahead of the exercise, and the inaugura-tion ceremony of Al-KEYME was co-hosted on-board, along with the Tanzanian Peoples' De-

Tanzanian Peoples' De-fence Force (TPDF).

A Ceremonial Guard was also paraded onboard INS Chennai with TPDF and Indian Navy band play-ing in unison the national anthems of respective

# DRDO tests laser weapon system that can disable missiles and drones +

Development Organisation (DRDO) on Sunday an-nounced the successful trial of the Mk-II(A) Laser-Directed Energy Weapon (DEW) system "mastering the technology of disabling missiles, drones and small er projectiles". The success has put In-

The success has put in-dia in the exclusive club of nations which have the high-power Laser-DEW system, the DRDO said in a

system, the DRDO said in a statement.

"Indigenously designed and developed Mk-II(A) DEW system was demon-strated in its entire spec-trum of canability by entrum of capability by en-gaging the fixed wing drones at long range,



thwarting a multiple drone attack and destroying ene-my surveillance sensors and antennae," the state-ment said.

"The lightning speed of engagement, the precision and the lethality delivered at the target within few se-

8

2

1 4 8

DIFFICULTY RATING: \*\*\*

8 5 9

8

5

thwarting a multiple drone conds made it the most po

conds made it the most po-tent counter drone system."
"Cost of firing it for few seconds is equivalent to the cost of couple of litres of petrol. Therefore, it has the potential to be a long-term and low-cost alterna-

tive to defeat the target," the DRDO said. Detailing the function-ing of the system, the state-

ment said once detected by a radar or by its inbuilt Electro Optic (EO) system, laser-DEW can engage tar-gets at the speed of light and use an intense laser beam to cut through the target, leading to structu-ral failure or more impact-

targeted.
This type of cutting-edge weaponry has the po-tential to revolutionise the

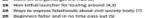
# TH CROSSWORD+ 14458

### Lower to protect the tail enders in play (7)

# SUDOKU 8







21 Cops failing on detail (4,5) 25 Nothing to hide - sort out air passage (7) 26 Marine pollution - regularly follow over part of the ship (7)

Supporters in the US find their origins without hesitation (7) 29 Electric shock perhaps plays a role (7)

Is blocking block? Come up with questions (6) Composer's copyright and an invitation for a ride... (6)

...and discharge about fifty (4) Become vigorous like one among the sheep (4,2) Constant pressure over men said to be substantial [8) Pacts are good to intercept spies (10)

Union settlement has to stop insinuation (8)
Very hungry, becomes a nervous wreck (8)
"Summon a machinist" is an absorbing book (4-6)

16 On Sunday hest plant (8) 18 Harry, not Elvis is the story teller (8) 22 Loose clothing can cover the back (6)

23 Awful result in N. Ireland (6) 24 Crazy to come up and demand such fabric (6) 27 Pledge one and take half first of all (4)

3

7 9 8

1 4 7 3 8

# Tamil New Year significance

Our sastras say Brahma created the world during the sun-day is celebrated as the Tamil New Year, based on the cal-day is celebrated as the Tamil New Year, based on the cal-culation of the rotation of the earth around the sun. From the time the sun enters the Tamil zodiac of Mesham, to its before returning to Mesham on the first day of Chititria, it is considered to be the start of new beginnings, filled with amplicolumness and positive energy, sald Truckkudanthai Dr. Venkatesh.

The month of Chittirai is a salubrious one (also known

as vasantina season; and it is human nature to expect an end to the heat of troubles and onset of better times on all fronts. To this end, people turn to their favourite deities, praying for benign grace and benediction and temple vi-sits are highly efficacious. The reading of the almanac is sits are highly efficicious. The reading of the almanae is another highlight of the new year. Our sastras say that one should read the almanae every day before setting out of sons, if one is unable to do so, one should listen to vedic pundits reading the almanae on this day, in temples and other places of congregation. As the new year dawns, one of the places of the same of the control of the places and the places of the places of the places of the places early in most buses, with festorons made of mange leaves early in most buses, with festorons made of mange leaves early in most buses, with festorons made of mange leaves early in most buses, with festorons made of mange leaves early in most buses, with festorons made of mange leaves early in the strength of the places of the places of the symbolic acceptance that life will be a mix of sweet mo-ments and bitter experiences, but with god's grace, one can find the strength on overcome everything.

# India, Africa maritime engagement exercise begins off Tanzania coast

# The Hindu Bureau

**NEW DELHI** 

The inaugural edition of the large-scale multilateral exercise Africa India Key Maritime Engagement (AI-KEYME) began on Sunday off Dar-es-Salaam, Tanzania.

Coinciding with the naval exercise, offshore patrol vessel *INS Sunayna*, designated as Indian Ocean Ship (IOS) SAGAR and sailing with 44 naval personnel from nine friendly nations, reached the port on Saturday.

"AIKEYME aims to develop collaborative solutions to common regional maritime challenges. This maiden initiative by the Indian Navy seeks to enhance interoperability and syner-



INS Chennai arrives in Dar-es-Salaam for the inaugural edition of the large-scale multilateral exercise AIKEYME. PTI

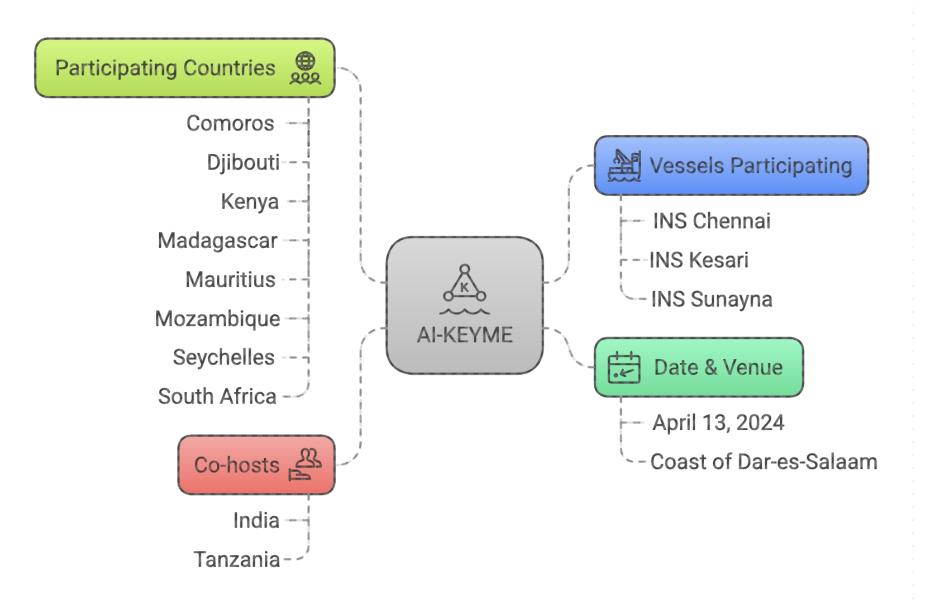
gise combined operations among the maritime forces of partner nations," the Navy said in a statement.

"It also highlights the strong and friendly relations between India and the African nations." The six-day AIKEYME exercise from April 13 to 18 includes participation from Comoros, Djibouti, Kenya, Madagascar, Mauritius, Mozambique, Seychelles and South Africa, alongside the co-hosts India and Tanzania. "This initiative aligns with the vision of Prime Minister Narendra Modi, promoting Mutual and Holistic Advancement for Security and Growth Across Regions (MAHASAGAR)," the Navy said.

The *Indian Naval Ship Chennai* (destroyer) and *INS Kesari* (Landing Ship Tank - Large) arrived in Dar-es-Salaam ahead of the exercise, and the inauguration ceremony of AI-KEYME was co-hosted onboard, along with the Tanzanian Peoples' Defence Force (TPDF).

A Ceremonial Guard was also paraded onboard *INS Chennai* with TPDF and Indian Navy band playing in unison the national anthems of respective countries.

# Africa India Key Maritime Engagement (Al-KEYME)



# Q. With reference to the Africa India Key Maritime Engagement (AI-KEYME) 2024, consider the following statements:

- 1.AI-KEYME 2024 was co-hosted by India and Kenya in the Indian Ocean.
- 2. The exercise aims to enhance maritime interoperability between India and African nations.
- 3.It aligns with India's MAHASAGAR vision which promotes mutual security and growth across regions.
- 4.INS Vikrant participated in the first edition of the AI-KEYME exercise.

# Which of the above statements is/are correct?

- (a) 2 and 3 only(b) 1 and 4 only(c) 1, 2 and 3 only(d) 2, 3 and 4 only

# DRDO tests laser weapon system that can disable missiles and drones

# The Hindu Bureau

NEW DELHI

The Defence Research and Development Organisation (DRDO) on Sunday announced the successful trial of the Mk-II(A) Laser-Directed Energy Weapon (DEW) system "mastering the technology of disabling missiles, drones and smaller projectiles".

The success has put India in the exclusive club of nations which have the high-power Laser-DEW system, the DRDO said in a statement.

"Indigenously designed and developed Mk-II(A) DEW system was demonstrated in its entire spectrum of capability by engaging the fixed wing drones at long range,



A view of the Laser-Directed Energy Weapon system developed by the DRDO to shoot down aerial targets in Kurnool. ANI X

thwarting a multiple drone attack and destroying enemy surveillance sensors and antennae," the statement said.

"The lightning speed of engagement, the precision and the lethality delivered at the target within few seconds made it the most potent counter drone system."

"Cost of firing it for few seconds is equivalent to the cost of couple of litres of petrol. Therefore, it has the potential to be a longterm and low-cost alternative to defeat the target," the DRDO said.

Detailing the functioning of the system, the statement said once detected by a radar or by its inbuilt Electro Optic (EO) system, laser-DEW can engage targets at the speed of light and use an intense laser beam to cut through the target, leading to structural failure or more impactful results if the warhead is targeted.

This type of cuttingedge weaponry has the potential to revolutionise the battlespace by reducing the reliance on expensive ammunition, while also lowering the risk of collateral damage, it stated. The trial was carried at the National Open Air Range, Kurnool in Andhra Pradesh.

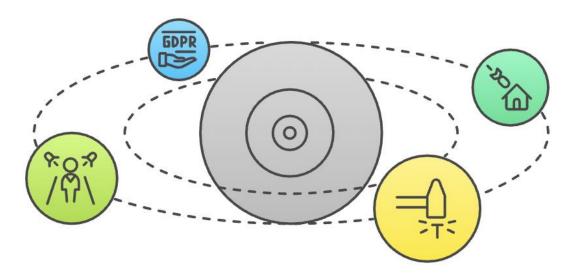
# Components of the Mk-II(A) Laser-DEW System

# Organization Involved

Defence Research and Development Organisation (DRDO)

# **Functionality**

Disables missiles, drones, and small projectiles



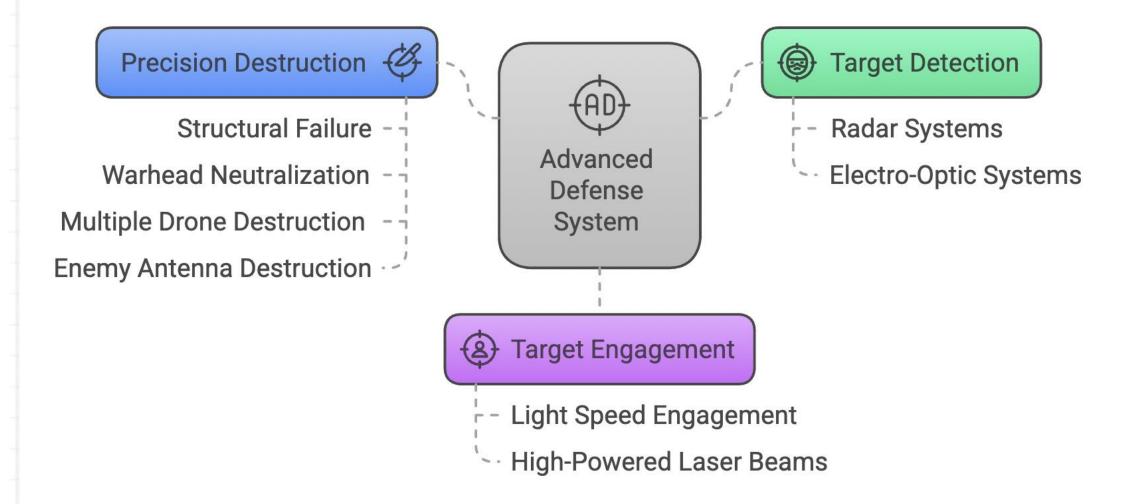
# **Location of Trial**

National Open Air Range, Kurnool

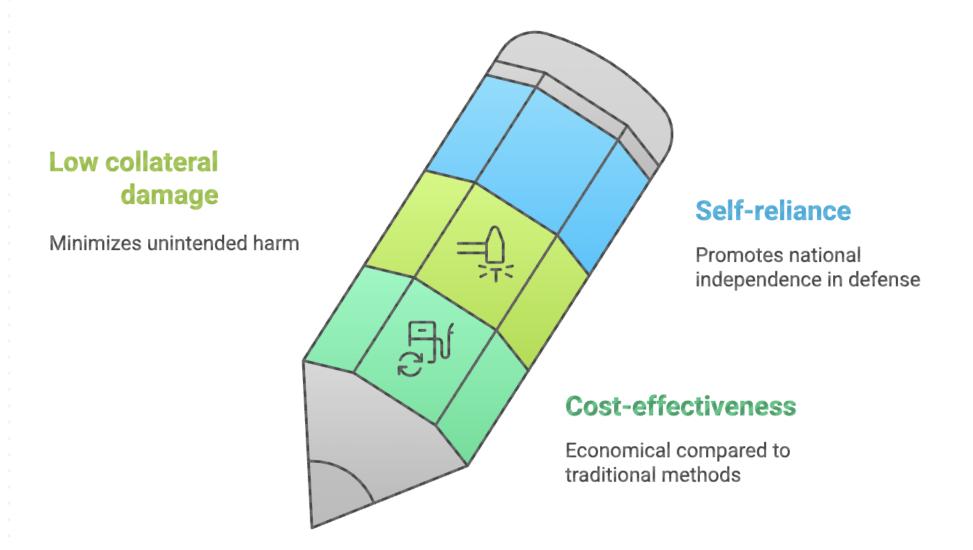
# **Technology Used**

Laser technology

# Advanced Defense System Capabilities



# Advantages of Indigenous Defense Technology



# Q. With reference to the Laser-Directed Energy Weapon (Laser-DEW) system developed by DRDO, consider the following statements:

- 1.The Mk-II(A) Laser-DEW system can neutralize aerial targets like drones and missiles using an intense laser beam.
- 2. The firing cost of the DEW system is significantly higher than conventional ammunition due to energy usage.
- 3. The system uses both radar and Electro-Optic (EO) technology for target detection and engagement.
- 4. The recent test of the Mk-II(A) system was conducted at Pokhran Range, Rajasthan.

# Which of the above statements is/are correct?

- (a) 1 and 3 only
  - **(b)** 2 and 4 only
  - (c) 1, 2 and 4 only
  - (d) 1, 3 and 4 only

# **BatEchoMon: India's first automated** bat monitoring, detection system

BatEchoMon is programmed to activate at sunset, when bats begin flying, and continuously listens and analyses audio. Its Raspberry Pi microprocessor processes data captured by an ultrasonic detector, isolating bat calls from other noises, and then uses a neural network to identify the species

### Nikhil Sreekandan

or her PhD research, bat biologist Kadamhari or ner PND research, par biologist Kadambari Deshpande made overnight recordings of bat echolocation calls in the Western Ghats. A "good night" would western Ghais. A good night would generate about 30 GB of data from 11 hours of recording with a bat detector. To process the data, Deshpunde would go through several one-minute recordings, scanning every millisecond for bat calls, and make notes on the species and other information on their behaviour and

ecology.

The secology of the

autonomous system capable of detecting and analysing bat calls in real-time. It is India's first automated bat monitoring system, developed by Deshpande and Vedant Barje under the guidance of Jagdish Krishnaswamy, at the Long-Term Urban Ecological Observatory in the School of Environment and Sustainability at the Indian Institute for Human

at the Indian Institute for Human Settlements (IIHS), Bengaluru. Deshpande is a postdoctoral fellow at the Observatory and the School; Barje, who leads the WildTech Project at the

who leads the Wildflech Project at the Wildflife Conservation Trust, is a consultant there. The work of the Wildflife Conservation Trust, is a consultant there are a new chapter for har research in the country, according to be behande. The monitoring system allows scientists who study bast to "go beyond data processing and towards asking interesting quentions about bat

asking interesting questions about bat ecology."

by will it lead to a smoother work of the control of the control of the recording bats in different parts of the country, allowing us to gain more insights on the natural history and ecology of different bat species," Rohit Chakravarry, a bat researcher and conservationist at the Nature Conservation Foundation,

said.
"I don't know of any device internationally with an inbuilt recording plus call classifying unit. If my knowledge serves me well, BatEchoMon is a milestone in bat research globally."

### The bat in the machine

Aside from a recording device, BatEchoMon includes components to record, store, process, and analyse species-wise bat activity on the fly. "In [BatEchoMon], Audiomoth, a popular low-cost ultrasonic detector, has been configured to work as an ultrasonic



Hying, and coetimuously listens and analyses audio. The device's brain is a Raspberry Pi microprocessor, which analyses audio. The device's brain is a Raspberry Pi microprocessor, which Audiomoth. "It first isolates but calls from other ultrasounds, such as those of insects or anthropogenic and mechanisms of the peak frequency and structure of a bat call are analysed to match a known pre-trained analysed to match a known pre-trained. "The system uses a [convolutional neural network] based algorithm to do device is a spectrogram - a visual the lying, and cor

this," Barje added. The output from the device is a spectrogram – a visual representation of the frequencies of an representation of the frequencies of an expresentation of the frequencies of an expression of all detected bat calls, along with audio recordings of the portions with just the data on which species has been most active through the night, which species was active when, and so on to be interpreted manually, after painstakingly combing through hours of data," Deshpande said.

Deshpande said.

Deshpande gromponents are enclosed in a

processing components are enclosed in a box measuring 200 mm × 80 mm × 80 mm. Other auxiliary components in the device include a solar panel plus battery and a WiFi communication unit for power supply and data transmission, respectively. In the absence of the sun, the device can last for up to eight days, according to Barje. BatEchoMon also has

Currently, the system can identify six to seven common Indian bat species. Going forward, we would like to include as many bat species as

a modular design, and its battery, charging apparatus, and the level of automation and data relay can be customised to the space it is installed in. But the team was reluctant to reveal more about the setup process.

### Suddenly, it became possible

Bat ecology and acoustics is a nascent field in India, with just a handful of bat

field in India, with just a handful of bat researchers recording bat calls and analysing them for ecological studies. Global bat-call databases such as clobal bat-call databases such as recordings submitted by Indians. Deshpande has been using bat detectors since 2008 and has observed their evolution worldwide. In Europe, she said, detectors equipped with the libraries have saved scientists a lot of associated software and reference libraries have saved scientists a lot of time. Since then she has wanted to develop something similar, but customised for the insectivorous bats that

are more common in India. After a chance meeting with fellow researcher Barje, the duo started iterating through numerous designs, different microprocessors, algorithms, and power

analyse bat calls in real-time It is India's first automated bat monitoring system, developed by Kadambari Deshpande and Vedant Barje at the Long-Term Urban Ecological Observatory in Bengaluru

THE CIST

The developers say the system allows scientists to progress towards asking questions about bat ecology, and will help people transition to recording bats in other parts of the country

The output from the device is a spectrogram of all detected bat calls, along with audio of just the calls. The system also generates statistics on which species has been most active. Earlier, all of this needed to be interpreted manually

+

successfully completed pilot tests in an HHS site in Nashik. The team plans to test it for longer durations and in diverse conditions as well as to beta test the device with select users outside the organisation. BatEchoMon's primary obstacle is the limited availability of reference libraries for the calls of many bat species. "Currently, the system can identify six to seven common Indian bat species. Going forward, we would like to include as

solutions - before arriving at the current

The core system of BatEchoMon costs a third of advanced detectors and similar systems, according to Barje. He didn't wish to disclose exact numbers, however.

The main challenge In the last few months, BatEchoMon has

version of BatEchoMon

many bat species as possible," Deshpande said.

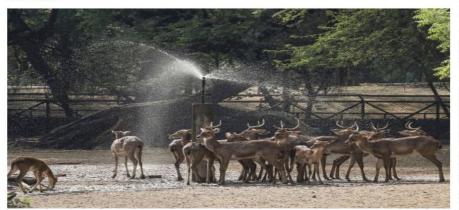
They also said they hope the device in its present form will be able to identify peri-urban, and human-modified forested areas. The main challenge is to create robust training datasets to make good robust training datasets to make good.

Fortunately, collaborations among Indian researchers are improving because of initiatives like the 'State of India's Bats' workshop conducted by the Nature

Conservation Foundation and Bat Conservation International, according to

(Nikhil Sreekandan is an independent

### BIG SHOT



## herd of deer cools off under a sprinkler in its enclosure amid heatwave conditions at the National Zoological Park, in New Delhi, on April 9, 2025. PTI

# Zoos: not just a showcase

# Associated Press

At the Barcelona Zoo, a At the Barcelona Zoo, a 40-year-old African elephant places her foot through the greatly scrubby the sold of the place of

zoos worldwide increasingly emphasise lifelong care. Zoos have undergone a rethink in recent decades with the snecies and education, moving away from the paradigm in

which exotic animals are displayed as a spectacle. The new approach includes knowing how to adapt to the knowing how to adapt to the following the second of the second second to the second se

living longer due to can age gracefully, said Martin



Two old African elephants, Bully (left) and Susi, at the

Zordan, CEO of the World Association of Zoos and Aquariums.

Zordan said that just like older people, elderly

Zordan said that just like older people, elderly animals require more care: regular health checks, supplements, adapted living spaces, and monitoring of mental and behavioral health. "We care about these animals living comfortably and leading lives with dignity,"

comfortably and leading lives with dignity, Zordan said. Several zoos in the United States also highlight their treatment of older animals, such as those in Baltimore and Baton Rouge.

For feedback and suggestion for 'Science', please write to science@thehindu.co.in with the subject 'Daily page'

# BatEchoMon: India's first automated bat monitoring, detection system

BatEchoMon is programmed to activate at sunset, when bats begin flying, and continuously listens and analyses audio. Its Raspberry Pi microprocessor processes data captured by an ultrasonic detector, isolating bat calls from other noises, and then uses a neural network to identify the species

Nikhil Sreekandan

or her PhD research, bat biologist Kadambari Deshpande made overnight recordings of bat echolocation calls in the Western Chats. A "good night" would generate about 30 GB of data from 11 hours of recording with a bat detector. To process the data, Deshpande would go through several one-minute recordings, scanning every millisecond for bat calls, and make notes on the species and other information on their behaviour and ecology.

"It took me II months to process 20 nights of data," Deshpande said. "BatEchoMon can probably give me that in a few hours."

BatEchoMon, short for 'Bat Echolocation Monitoring,' is an autonomous system capable of detecting and analysing bat calls in real-time. It is India's first automated bat monitoring system, developed by Deshpande and Vedant Barje under the guidance of Jagdish Krishnaswamy, at the Long-Term Urban Ecological Observatory in the School of Environment and Sustainability at the Indian Institute for Human Settlements (IIHS). Bengaluru.

Deshpande is a postdoctoral fellow at the Observatory and the School; Barje, who leads the WildTech Project at the WildIfe Conservation Trust, is a consultant there.

BatEchoMon marks a new chapter for bat research in the country, according to Deshpande. The monitoring system allows scientists who study bats to "go beyond data processing and towards asking interesting questions about bat ecology."

"Not only will it lead to a smoother workflow, it will help people transition to recording bats in different parts of the country, allowing us to gain more insights on the natural history and ecology of different bat species," Rohit Chakravarty, a bat researcher and conservationist at the Nature Conservation Foundation,

"I don't know of any device internationally with an inbuilt recording plus call classifying unit. If my knowledge serves me well, BatEchoMon is a milestone in bat research globally."

# The bat in the machine

Aside from a recording device, BatEchoMon includes components to record, store, process, and analyse species-wise bat activity on the fly. "In BatEchoMon], Audiomoth, a popular low-cost ultrasonic detector, has been configured to work as an ultrasonic microphone," Barje said.

BatEchoMon is programmed to activate



Kadambari Deshpande and Vedant Barje with two BatEchoMon units. VIVEK HASYAGAR

automatically at sunset, when bats begin flying, and continuously listens and analyses audio. The device's brain is a Raspberry Pi microprocessor, which processes the data captured by Audiomoth. "It first isolates bat calls from other ultrasounds, such as those of insects or anthropogenic and environmental noises. Then the peak frequency and structure of a bat call are analysed to match a known pre-trained model, which helps identify the bat species," Deshpande explained.

"The system uses a [convolutional neural network] based algorithm to do this," Barje added. The output from the device is a spectrogram — a visual representation of the frequencies of an audio signal as it varies with time — of all detected bat calls, along with audio recordings of the portions with just the calls. The system also generates statistical data on which species has been most active through the night, which species was active when, and so on.

was active when, and so on.

"Earlier, all of this needed to be
interpreted manually, after painstakingly
combing through hours of data,"
Deshpande said.

The Raspberry Pi and its associated processing components are enclosed in a box measuring 200 mm \* 80 mm \* 80

99

Currently, the system can identify six to seven common Indian bat species. Going forward, we would like to include as many bat species as possible

a modular design, and its battery, charging apparatus, and the level of automation and data relay can be customised to the space it is installed in. But the team was reluctant to reveal more about the setup process.

## 'Suddenly, it became possible'

Bat ecology and acoustics is a nascent field in India, with just a handful of bat researchers recording bat calls and analysing them for ecological studies. Global bat-call databases such as ChiroVox and Xeno-Canto have few recordings submitted by Indians.

Deshpande has been using bat detectors since 2008 and has observed their evolution worldwide. In Europe, she said, detectors equipped with the associated software and reference libraries have saved scientists a lot of time. Since then she has wanted to develop something similar, but customised for the insectivorous bats that

are more common in India.

After a chance meeting with fellow researcher Barje, the duo started iterating through numerous designs, different microprocessors, algorithms, and power

solutions - before arriving at the current version of BatEchoMon.

The core system of BatEchoMon costs a third of advanced detectors and similar systems, according to Barje. He didn't wish to disclose exact numbers, however.

# The main challenge

In the last few months, BatEchoMon has successfully completed pilot tests in an IIHS site in Nashik. The team plans to test it for longer durations and in diverse conditions as well as to beta test the device with select users outside the oreanisation.

BatEchoMon's primary obstacle is the limited availability of reference libraries for the calls of many bat species. "Currently, the system can identify six to seven common Indian bat species. Going forward, we would like to include as many bat species as possible," Deshpande

They also said they hope the device in its present form will be able to identify the species commonly seen in urban, peri-urban, and human-modified forested areas. The main challenge is to create robust training datasets to make good detection models for different species.

Fortunately, collaborations among Indian researchers are improving because of initiatives like the 'State of India's Bats' workshop conducted by the Nature Conservation Foundation and Bat Conservation International, according to Chakravarty.

(Nikhil Sreekandan is an independent journalist, nsreekandan@gmail.com)

## THE GIST

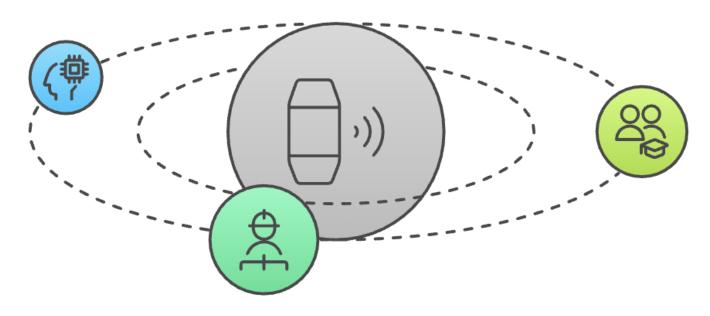
-

BatEchoMon can detect and analyse bat calls in real-time. It is India's first automated bat monitoring system, developed by Kadambari Deshpande and Vedant Barje at the Long-Term Urban Ecological Observatory in Bengaluru

The developers say the system allows scientists to progress towards asking questions about bat ecology, and will help people transition to recording bats in other parts of the country

The output from the device is a spectrogram of all detected bat calls, along with audio of just the calls. The system also generates statistics on which species has been most active. Earlier, all of this needed to be interpreted manually

# **BatEchoMon Development Overview**



# **Developers**

Kadambari Deshpande & Vedant Barje

# **Supervisor**

Jagdish Krishnaswamy

# Institution

LTEO & IIHS

# **BatEchoMon Device Operation**



The device automatically activates at sunset.

The ultrasonic microphone captures bat calls.

Capture Bat Calls





Background noise is filtered out.

Neural network identifies up to 7 bat species.

Identify Bat Species ( )

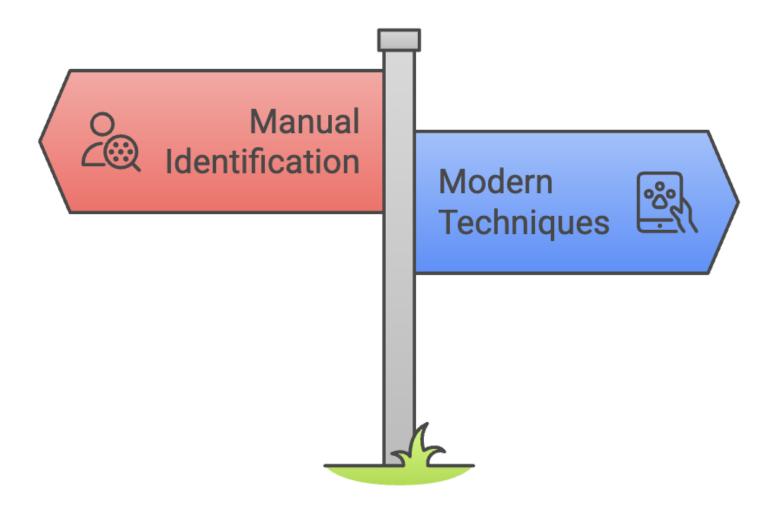




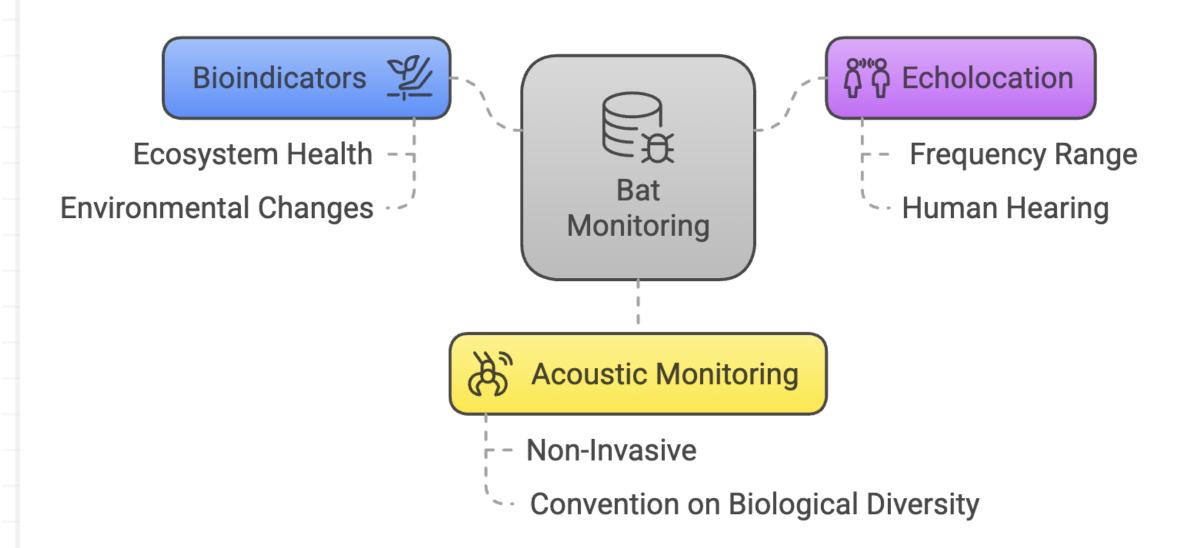
Real-Time Analysis

Analysis is performed in real time.

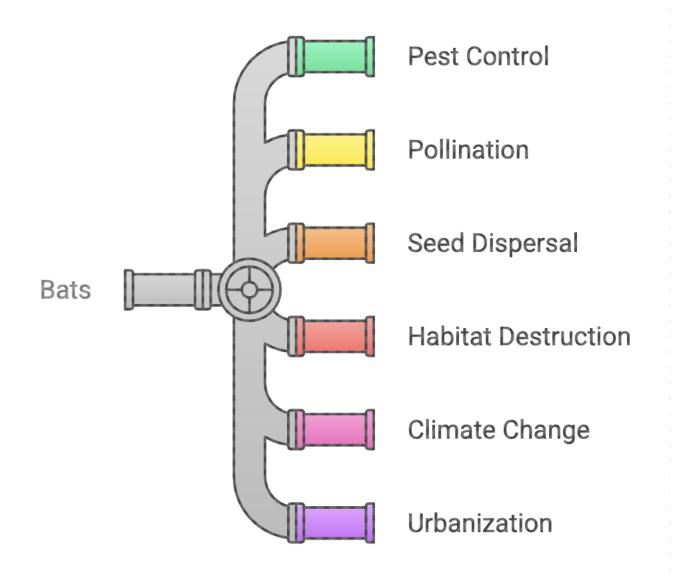
# How to improve bat research in India?



# Bat Monitoring and Ecosystem Health



# The Multifaceted Role of Bats in Ecosystems



# Q. With reference to *BatEchoMon*, India's first automated bat monitoring system, consider the following statements:

- 1.It uses an ultrasonic detector and a neural network to identify bat species in real-time.
- 2.BatEchoMon can identify all bat species found in India based on audio signatures.
- 3. The system was developed as part of the Long-Term Ecological Observatory (LTEO) initiative.
- 4.Bats are important bioindicators and pollinators, making their monitoring essential for ecosystem health.

Which of the above statements is/are correct?

- (a) 1 and 3 only
  - **(b)** 1, 3 and 4 only
  - (c) 2 and 4 only
  - (d) 1, 2, 3 and 4







While Israel govt. wants war, most Israelis don't Surveys suggest citizens fear impact on economy



Dube and Dhoni help CSK snap losing streak



### Diesel demand growth falls to lowest since 2020

NEW DELHI Growth in demand for diesel, India's most consumed petroleum product, fell to its lowest since the pandemic in last financial year as the economy expands at a slower pace and consumption shifts:

### Hamas seeks guarantees to free hostages

A senior Hamas official said on Monday that the Palestinian group is prepared to release all Israeli hostages in exchange for a "serious prisoner swap" and the war in Gaza. to PAGE 14

### New tensions flare between France, Algeria

resh tensions flared between France and Algeria on Monday as the French Foreign Minister said its former colony had ofered 12 French officials to

### Pakistan urges Iran to probe killing of eight

ISLAMARAD

nabad has sought Tehran's killing of eight Pakistani s on Saturday in Sistar and Balurhistan province near

# **Protests against Waqf Act turn** violent in West Bengal's Bhangar

Vehicles were torched, and police personnel attacked in South 24 Parganas district; in violence-hit Murshidabad, over 200 people arrested, as residents who fled the strife return; Mamata appeals for peace, urges people to exercise restraint

### Shiv Sahav Singh

iolence erupted in Bhangar in South 24 Parganas in West Bengal on Monday during protests against the Waqf (Amendment) Act, 2025, even as violence-af-fected areas in the State's Murshidabad district were slowly limping back to nor-malcy with no major inci-dent reported in the past 36 hours.

The violence erupted during protests by a gathering called by Indian Secular Front leader and MLA Nawshad Saddique.

Nawshad Saddique.

Rawshad Saddique.

Description of the police personnel and set five motorbikes used by the police on fire in the Sonepur bazar area of Bhargar.

A prison wan was attacked, and some police

stone pelting.

Earlier in the day, Jawed Shamim, Additional Direc-tor-General of Police (Law and Order), said that no major violence was report-ed in Murshidabad and the of the arrested crossed 200.

crossed 200.

"There were so many was a considered to the constant of the cons



Mr. Shamm said that the process to return people who fled their homes in the violence-affected areas and took shelter in The police officer said that 100-200 people fled the area by crossing a river and the standard processing a river and the sta took shelter in a school at

ta Majumdar visited one of

the camps on Monday. He said that women at the camp complained that their homes were torched and their property was destroyed.

PINION » PAGE 9

Chief Minister Mamata Banerjee appealed for peace and said people can hold protests after obtain-ing permission.

ing permission.

She urged people to res-train themselves against provocation.
The Chief Minister also

urged that nobody should

(Amendment) Act will no tions against the Centre.

## Loans now cheaper as major banks cut rates

Major banks have cut their

Major banks have cut their lending and deposit rates following the Reserve Bank of India's (RBI) 50-basis point reduction in repo-rate in 2025. State Bank of India (SBI) cut the repo rate-linked lending rates by 25 basis points to 8.25% and exter-nal benchmark lending to relate the SBI of the SBI of the reserve the SBI of the SBI of the reserve the SBI of the SBI of the SBI of the reserve the SBI of the SBI of the SBI of the reserve the SBI of t tor bank HDFC Bank cut its deposit interest rates by 25 basis points.

# Choksi arrested in Belgium as India seeks extradition

Fraud fallout

Tactical escape: The accused fled India in January 2018, just before



# Suhasini Haidar Devesh K. Pandey NEW DELHI

Belgian authorities con-firmed on Monday that they have Mehul Choksi, the fugitive diamond busi-nessman, in custody after he was arrested over the weekend. He is wanted, along with

his nephew Nirav Modi, in a case by Punjab National Bank alleging loan frauds worth more than ₹13,578 crore. The Central Bureau of Investigation (CBI) has been pursuing his extradition since 2018, when he left the country. Mr. Choksi was arrested

Mr. Choksi was arrested by the Belgium enforce-ment agency on April 12, months after India moved a request seeking his extradition. Mr. Choksi is an Anti-guan clitzen now, and had moved to Belgium a few years ago, reportedly for control of the control of the property of the control of the arrested near his home in Antiwern. As per reports Antwerp. As per reports, he secured a Belgian resi-dency permit in November 2023, as his wife is a Bel-

Extradition request
"[Mr. Choksi] is being de-tained in anticipation of further judicial proceed-ings. Access to his legal counsel has been assured," the Belgian Federal Public

Service of Justice or Justice

due to come up in Belgian In 2021, a court in Do-minica had dismissed a CBI petition for his extradition after he alleged that he had been kidnapped and bea-

International agency Inwithdrawn its Red Notice for Mr. Choksi after his lawyers had claimed human rights violations and "polit-ical targeting" by the Modi government.

government.
"It goes without saying that we will fight that extradition, we have serious questions about he course belgian lawyer Simon Bekaert told the newspaper De Standaurd, adding that he intended to argue that cebe a "fair trial" in India.

appealing a decision by the Antiguan government to revoke his citizenship (Inputs from Sandeep Phu-kan)

\*FREEDOM REPORT

# Bihu beats



# Telangana becomes first State to notify sub-categorisation of Scheduled Castes

# M. Rajeev HYDERABAI

The Telangana govern-ment has notified the im-plementation of the Telan-gana Scheduled Castes (Rationalisation of Reser-vations) Act 2025. The State has issued a gazette notification with April 14, 2025 as the appointed day for categorisation of Sche-duled Castes (SC) into three groups.

Telangana has become
the first State into the

country to operationalise the classification of the Scheduled Castes after the

CM (IIII



rate quotas for the most marginalised groups with-in these communities.

Multiple factors
The government took into
consideration the contents
of the top court's verdict,
empirical data, social, economic, educational, enployment, and political
status of the communities
in the categorisation of SCs

to three groups for im-ementation of the rule of servation. Accordingly, sub-castes categorised as most backward had been classified as Group-I with 1% reservation. Though these groups con-stituted 0.5% of the popu-lation, the government had decided to provide them view to provide education al and employment oppor tunities to the most back-ward among the Scheduled Castes. In all. 18 sub-castes of the total 59 which received marginal benefits have been placed under Group-II with 9% reservation while 26 sub-castes that were relatively better placed in terms of opportunities had been placed in Group III with 5% reservation. sub-castes of the total 59

The Cabinet sub-com-mittee headed by Minister for Irrigation N. Uttam Ku-mar Reddy and co-chaired by Minister for Health C Damodar Rajanarsimha handed over the first copy of the gazette notification to Chief Minister A. Re-

vanth Reddy on Monday. Mr. Rajanarsimha said 33 of the 59 sub-castes 33 of the 59 sub-castes were continuing in the same group in which they were placed in the past and there was shuffling of only 26 sub-castes constituting 3.43% of SC population.
Recruitment to government jobs would forthwith
be based on the categorisation of the SC communities, Mr. Rajanarsimha
said, adding the categorisation would not be applicable to the vacancies already notified. 3.43% of SC population.

# Agence France-Presse

stock markets on Monday welcomed U.S. tariff ex-emptions for electronics, but President Donald Trump signalled the re-prieve would be temporary and warned no coun-try would get "off the hook" in his trade war – especially China. Mr. Trump's trade war

has raised fears about an economic downturn as the dollar has tumbled and investors have dumped U.S. government bonds, nor-mally considered a safe hawen investment.
But Asian and European
stock markets rose firmly
on Monday, after days of
extreme volatility over several tariff twists and turns
since Mr. Trump presented

# on April 2. The Paris and Frankfurt stock exchanges were up around 2% after midday, and London gained 1.7%, while Tokyo finished 1.2% higher and Hong Kong rose 2.4%. The world's two largest locked in a fast-moving game of brinkmanship game of brinkmanship since Mr. Trump launched a global tariff assault. The U.S. side had appeared to dial down the pressure slightly on Friday,

Stocks surge after U.S. tariff exemptions

even as Trump doubles down on China

Source.

But Mr. Trump and some of his top aides said on Sunday that the exemp-

sued fresh tariffs against many items on the list. Is bearing fruit, is bearing fruit, of the hook'... especially not China which, by far, treat tait at the target of the hook'... especially not China which, by far, treat tait on the worst!" the U.S. Preduction of the worst of



temporary as his team pur-sued fresh tariffs against

Washington, courting countries spooked by the global economic storm. The White House says Mr. Trump remains optideal with China, altho officials

have made it clear they ex-

# Telangana becomes first State to notify sub-categorisation of Scheduled Castes

M. Rajeev HYDERABAD

The Telangana government has notified the implementation of the Telangana Scheduled Castes (Rationalisation of Reservations) Act 2025. The State has issued a gazette notification with April 14, 2025 as the appointed day for categorisation of Scheduled Castes (SC) into three groups.

Telangana has become the first State into the country to operationalise the classification of the Scheduled Castes after the Supreme Court's land mark judgment on August 1 last year upholding the constitutionality of subclassifying the Scheduled Castes (SCs) and Scheduled Tribes (STs) to grant sepa-



A. Revanth Reddy

rate quotas for the most marginalised groups within these communities.

# **Multiple factors**

The government took into consideration the contents of the top court's verdict, empirical data, social, economic, educational, employment, and political status of the communities in the categorisation of SCs

into three groups for implementation of the rule of reservation. Accordingly, 15 sub-castes categorised as most backward had been classified as Group-I with 1% reservation. Though these groups constituted 0.5% of the population, the government had decided to provide them with 1% reservation with a view to provide educational and employment opportunities to the most backward among the Scheduled Castes. In all, 18 sub-castes of the total 59 which received marginal benefits have been placed under Group-II with 9% reservation while 26 subcastes that were relatively better placed in terms of opportunities had been placed in Group III with 5% reservation.

The Cabinet sub-committee headed by Minister for Irrigation N. Uttam Kumar Reddy and co-chaired by Minister for Health C. Damodar Rajanarsimha handed over the first copy of the gazette notification to Chief Minister A. Revanth Reddy on Monday.

Mr. Rajanarsimha said 33 of the 59 sub-castes were continuing in the same group in which they were placed in the past and there was shuffling of only 26 sub-castes constituting 3.43% of SC population.

Recruitment to government jobs would forthwith be based on the categorisation of the SC communities, Mr. Rajanarsimha said, adding the categorisation would not be applicable to the vacancies already notified.

# Telangana's SC Sub-Categorization Process



**Supreme Court Judgment** 

The Supreme Court upholds the constitutionality of SC/ST subcategorization.

Telangana enacts the Telangana Scheduled Castes (Rationalisation of Reservations) Act, 2025.

Telangana Act Enactment





**Gazette Notification** 

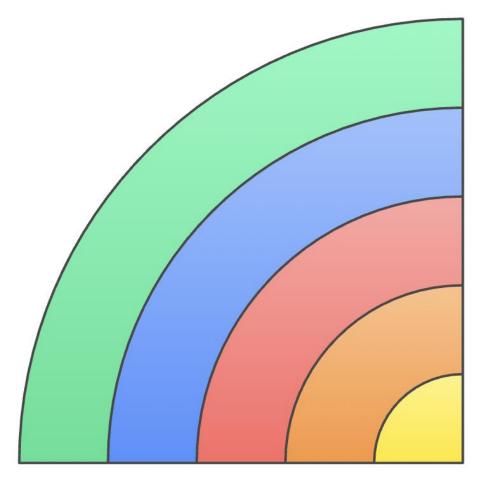
A gazette notification is issued for April 14, 2025, to categorize SCs.

SCs are categorized into three groups based on socioeconomic backwardness.

**SC Categorization** 







**Empirical Data** 

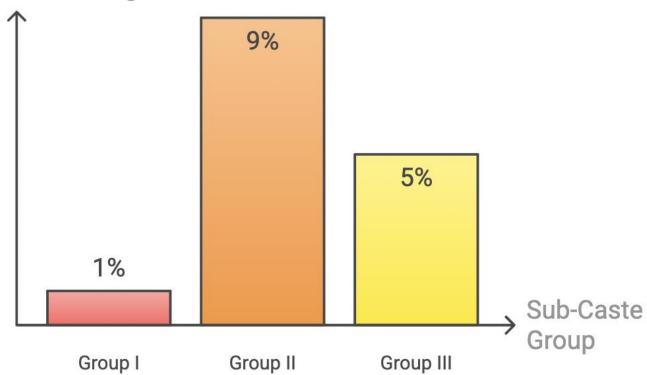
Education

**Employment** 

**Political Representation** 

Social Backwardness

# **Reservation Percentage**



Reservation Percentages by Sub-Caste Group



# **M** Historical Background:

Demand for SC sub-categorisation dates back to Andhra Pradesh (2000s), but legal challenges stalled progress.

Justice Usha Mehra Commission (2007) and Justice Ramachandran Commission explored subquotas within SCs.

Indra Sawhney Case (1992) allowed subcategorisation among OBCs, paving way for future similar actions.

#### 



#### Govt, frames draft rules for gas meters to ensure transparency

The Consumer Affairs Ministry has framed draft rules for gas meters under the Legal Metrology (General) Rules, 2011, which make it mandatory for all gas meters used for domestic, commercial, and industrial purposes to undergo testing, and industrial purposes to undergo testing trade and commerce. "The re-verification of these gas meters is also prescribed under the rules to ensure their correctness when these are in use," the Ministry said in a press release on Menday. The Ministry said the primary objective transparency, and reliability in the measurement of gas. The Consumer Affairs Ministry has framed draft

#### Medical device makers told to submit compliance certificates

The Central Drugs Standard Control Organisation (CDSCO) has upgraded its online registration system and has asked all medical device manufacturers to re-submit market standing certificates and non-conviction certificates for certificates and non-conviction certificates for registration. The move by CDSCO is aimed at improving ease of doing business and at improving ease of doing business and streamlining the regulatory process. The market streamlining the regulatory streamlining the company's credibility and compilance with regulatory standards. The non-conviction certificate verifies that a medical device manufacture or importer has not been convicted of offences related to the safety, quality, or performance of their devices.

#### ASI seeks to shed new light on **Dwarka through explorations**

A nine-member team of the Underwater Archaeology Wing of the ASI has undertaken onshore and offshore expeditions at Dwarka and Beyt Dwarka to search, document, and study submerged archaeological remains as well as ascertain their age

#### Sreeparna Chakrabarty NEW DELHI

n an effort to shed new light on Dwarka, an important part of India's "cultural history", the Archaeological Survey of India (ASI) has underta-

of India (ASI) has underta-ken a project to ascertain the antiquity of objects re-covered during expedi-tions in Gujarat. A nine-member team of the Underwater Archaeol-ogy Wing of the ASI has un-dertaken onshore and off-shore expeditions at Dwarka and Beyt Dwarks to search, document, and to search, document, and study submerged archaeo-logical remains as well as ascertain the antiquity of the recovered objects through scientific analysis of sediments, archaeological and marine deposits, a senior ASI official said. Beyt Dwarka, believed

to be the home of Lord Krishna, is an island off the coast of Gujarat, where the Dwarkadhish Temple is

Dwarkacmism temple is located.

A five-member team of the ASI had carried out brief fieldwork in February in the south of the Gomati Creek, located on the east-ern side of Dwarka. This in-



inspecting earlier explored areas and examine their present condition. It also aimed to identify probable areas for further investiga-tions and study. The select-ed area was explored by ared area was expicited by an chaeologists and important features were photographed.

"Dwarka is an impor-

"Dwarka is an impor-tant place from a histori-cal, archaeological and cul-tural point of view. Dwarka has always been a matter of research being mentioned in ancient literature. It has remained a significant part of cultural history of India.

Considering its impormains, including ancient tance, Dwarka has been ex-plored and researched by historians and archaeolosculptures, stone anchors, and other objects of histor-ical importance. A large area was scientif-ically surveyed but under-water archaeological excagists in the past as well," Alok Tripathi, Additional Director-General of the water archaeological excavations were carried out in a limited area by the archaeologists of the ASI and divers of the Navy. The diverse of the Navy. The Na ASI, who is leading the ex-cavation, told The Hindu.

Important remains Important remains
The Underwater Archaeology Wing carried our systematic archaeological investigations from 2005 at 02007 at Dwarka. These investigations, both onshore and offshore, revealed important archaeological resubmerged remains. In 2007, a small area

the Dwarkadhish temple was chosen for the excava tion. The entire excavation was conducted meticuthe interest of the control of the c

potential sites in the area to understand the history of the site, Professor Tri-

This study would in-This study would in-clude archaeological ex-plorations, identification of potential sites and place-ing diving operations, search and collection of ar-chaeological remains, their proper documentation and study, involving scien-tific analysis and studies.

Working groups of taskforce

#### Salman Khan receives fresh death threat: case booked

Bollywood superstar Sal-man Khan has reportedly received another death threat, this time in a What sApp message sent to the Mumbai Transport Depart-

ment, the police said. The unidentified sender either forcibly enter Mr.
Khan's residence or detonate a car bomb targeting
the actor. The message was
received on a WhatsApp
number belonging to the
Worli Transport Department, prompting immediate police action.
Following the complaint, an FIR was registered at the Worli police
tered at the Worli police

plaint, an Fik was regis-tered at the Worli police station against an un-known person. Authorities have launched an investigation to trace the source

of the message. This is not the first time the actor has been target-ed. Last November, Mr. Khan was allegedly threa-Khan was allegedly threa-tened by members of the Lawrence Bishnoi gang. A message sent to the Mum-bai Police traffic control room had demanded an ing which the actor would

#### Bengal CM's remarks on Waqf Act not right: Meghwal

The Hindu Bureau

Union Law Minister Arjum Ram Meghrwal on Monday said the remarks by West Bengal Chief Minister Ma-length Chief Minister Ma-new Waqf Act would not be implemented in the State was "not right". Noting this she had Noting this remark on the Citizenship (Amend-ment) Act, Mr. Meghwal said, "But CAA was imple-ment) Act, Mr. Meghwal said, "But CAA was imple-"It (IWAG Act) is a law Union Law Minister Arius

"It [Waqf Act] is a law enacted by Parliament which is implemented pan-India. If there is a difficulty during its implementation, suggestions can be made during framing of rules, the Law Minister said on the sidelines of a function to mark the 135th birth an-niversary of Dr. B.R.

1 Running after businesses for protection (6) 4 A helmsman crossing stream, here in Texas (8) 10 Confines credit notes - keen to succeed (9) 11 Country in between Argentina, Uruguay (5)

#### CPI, YSRCP move top court to challenge constitutional validity of Waqf Act, 2025

The Hindu Bureau

The Communist Party of India (CPI) has joined the queue of petitioners who have moved the Supreme Court to challenge the con-stitutional validity of the Waqf (Amendment) Act,

Waqf (Amendment) Act, 2025. The Left party has filed a writ petition through its general secretary D. Raja, in which it has contended that the Waqf (Amend-ment) Bill was passed by the Centre without proper consideration of the objec-tions raised by the mem-bers of the Johnt Parliamentary Committee formed to review the Bill, and the

other stakeholders.
The plea, filed through advocate Ram Sankar, said the Amendment Act, pu-blished on April 5 follow-

ing the assent of the Presi-dent of India, substantially curtailed the autonomy of the Waqf Board and funda-mentally transformed the framework of the Waqf

framework of the Wedgel Act, 1998.

"It wess to the Wedgel Act, 1998.

"It wess to the Wedgel Act, 1998.

"It west to the Wedgel Act, 1998.

We will be well a well

dy also moved the top court on Monday. In its plea filed through lawyer Mahfooz Ahsan Nazki, the

"failure to address the con-cerns of the Muslim

cerns of the Muslim community".

The inclusion of non-Muslim members under Sections 9 and 14 of the amended Waqf law is seen as interference in the inter-nal functioning of Muslim institutions, it said. The provision undermines the

More than dozen pleas A Bench headed by the Chief Justice of India Sanjiv Khanna is scheduled to hear on Wednesday more than a dozen petitions, in-cluding one filed by the All India Majlis-e-Ittehadul Muslimeen MP Asaduddin Owaisi, challenging the constitutional validity of

#### Logo, mascot of Khelo India Youth Games 2025 unveiled

The Hindu Bureau

Bihar Chief Minister Nitish

Bihar Chief Minister Nitish Kumar unveiled the official logo of the Khelo India Youth Games 2025 in Patna Outh Games 2025 in Patna Union Sports Minister Mansukh Mandaviya un-veiled the Games mascot during the programme or-ganised at the Samvad hall of the Chief Minister's Secretariat. Mr. Kumar and Mr. Man-

Mr. Kumar and Mr. Man-daviya jointly released the theme song of the Youth Games, which will be held in the State for the first time from May 4 to 15.

Mr. Kumar said that it was a matter of great hap-piness that the Khelo India piness that the Khelo India Youth Games is being or-ganised in Bihar and that Prime Minister Narendra Modi will inaugurate the event in Patna on May 4.

#### set up by SC to identify causes of students' suicides Reviewing previous

National Task Force on the Mental Health Concerns of Students and the Preven-tion of Stucides in Higher Educational Institutions, held here on Saturday, has decided to form three working groups for looking after different tasks as

after different tasks as-signed to them. The Union Education Ministry said in a release that the key areas of focus of these working groups in-clude identifying predomi-nant causes leading to student suicides, analysing the effectiveness of exist-ing student welfare and mental health regulations or policies and proposing reforms to strengthen insti-tutional frameworks and reports, examining existing laws are also to working groups

demic environment.
Academic pressure, dis-crimination, financial bur-dens, and the stigma sur-rounding mental health produced in the stigma sur-cides. Compiling and re-viewing previous reports, examining existing laws, and developing a metho-dology for designing questionnaires are also the tasks assigned to the work-ing groups.

The Supreme Court con-stituted the National Task Force under the chairman ship of Justice S. Ravindra Court judge, along with other experts from various domains as members, to domains as members, to discuss and deliberate on issues related to mental health concerns among students, the prevention of suicides in educational in-stitutions, and to recom-mend preventive mea-

Sures.

During the meeting, actions taken so far were reported and discussed in detail. Agenda points included developing a portal/website for data collection; reports and regulations/guidelines; disnaires; gathering support from different sectors; on-boarding of officers from the Department of School Education and Literacy and Union Health Ministr coordination with institu

#### TH CROSSWORD+ 14459



Anteater can hide perhaps (7)

14 Radical but some recovery from heart-lung machine (5)
15 Chasing records? Go hang it (8)
18 Wine bottles - sell contents in the cupboard (8)

Wine bottles - sell contents in the cupboard (8) Satellite carrying essential cargo - one's slow (5) Flowing stream, I follow the experts (7) Do wear a hat - it could be felt (7) Oscar, say, nowadays filled with action (5) Ystonaries have plans to acquire bank (9) 28 Rule allows the odd dress - do it all over again (8) 29 Home bird put in jail (6)

1 Lot of noise over club's indifference /8

1. Lot of noise over club's indifference (8)

Ministers can't be sakede accepting bribe at the centre

3. Straight away active - follow inner layer (2,3,4)

5. Side dish prepared stop homesteads (6,8)

6. Managed church property (5)

7. Randomly slept around without stop - refuse to wash (7)

Witty judge missing as one could see (6) In short, Indian daily allowing to take shower - part of

9 In short, Indian daily allowing to take shower - part of child rearing (6,8)
16 Simon Cole used a key (9)
17 Physically at home, each issue follows (2,6)
19 Stone setter came up with real rough diamonds (7)
18's even free, provide a reprint (7) Reduce time span, girl to expose all of them (6) 22 Reduce time span, girl to expose all or tree
24 Some closed items gave rise to surges (5)

#### SUDOKU



#### FAITH

#### Blessed Baisakhi

In Punjab, Baisakhi is of tremendous cultural, religious, social and spiritual significance at myriad levels. It demon-strates the rich heritage of the people of Punjab, said Prof.

ically, it marks the birth of the Khalsa order by Guru Gobind Singh, the tenth Guru of the Sikhs, on April 13, 1699. During that time, Punjab reeled under religious persecu-tion and tyramy of the Moghul rule. After the execution of Guru Tegh Bahadur for refusing to convert to Islam under the order of Moghul emperor Aurangzeb, Guru Gobind Singh became the tenth Guru of the Sikhs. He initiated the the order of Moghul emperor Aurangzeb, Curu Gobind formation of the new order of the Khalsa (meaning pure) at Talbit Keshgarh Sahib on Baisalkii by baptising the five formation of the theorem of the thinks of the theorem to the the top the theorem to part Talbit Keshgarh Sahib on Baisalkii by baptising the five them to partale amrit from the same bowl, to emphasise egalitarianism and lack of discrimination of the new religion on the basis of caste, creed or gender. The baptised five the same of the same o

nises with the celebration of spring harvest in north India

### Logo, mascot of Khelo India Youth Games 2025 unveiled

#### The Hindu Bureau

**PATNA** 

Bihar Chief Minister Nitish Kumar unveiled the official logo of the Khelo India Youth Games 2025 in Patna on Monday.

Union Sports Minister Mansukh Mandaviya unveiled the Games mascot during the programme organised at the Samvad hall of the Chief Minister's Secretariat.

Mr. Kumar and Mr. Mandaviya jointly released the theme song of the Youth Games, which will be held in the State for the first time from May 4 to 15.

Mr. Kumar said that it was a matter of great happiness that the Khelo India Youth Games is being organised in Bihar and that Prime Minister Narendra Modi will inaugurate the event in Patna on May 4.

	Year	Host(s)	Start date	End date	Sports	Gold	1st Team				2nd Team				3rd Team			
Edition							(=)	0		II.	(=)	0		Ţ	(5)	(3)		Л
T	2018	Delhi	31 Jan 2018	8 Feb 2018	16	209 <sup>[13]</sup>	Ó	Haryana			Maharashtra			Delhi				
1							38	26	38	102	36	32	43	111	25	29	40	94
11	0010	Maharashtra	9 Jan 2019	20 Jan 2019	18	403 <sup>[14]</sup>	9	Maharashtra			Ġ	Haryana			Delhi			
II	2019	Maharashtra					85	62	81	228	62	56	60	178	48	37	51	136
III	2020	Assam	10 Jan 2020	22 Jan 2020	20	447 <sup>[15]</sup>	9	Maharashtra			Ġ	Haryana			Delhi			
III	2020						78	77	101	256	68	60	72	200	39	36	47	122
D./	2004		4 June	13 June 2022 25 269	0.5	000[17]	Ó	Haryana			Maharashtra			Karnataka				
IV	2021	Haryana	2022 [16]		269[17]	52	39	46	137	45	40	40	125	22	17	28	67	
V	2023	Madhya Pradesh	30 January 2023	11 February 2023	27	295 <sup>[18]</sup>	9	Maharashtra			Haryana			Madhya Pradesh				
							56	55	50	161	41	32	55	128	39	30	27	96
\ /I	0004		19	31	-	278 <sup>[19]</sup>	9	Maharashtra			Tamil Nadu				Haryana			
VI	2024	Tamil Nadu	January 2024	January 2024	27		57	48	53	158	38	21	39	98	35	22	46	103
VII	2025	Bihar	TBD	TBD														

# China controls 90% of rare earths' refining capacity

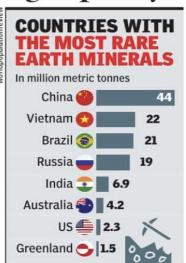
#### ▶ Continued from P1

India has the fifth-largest deposits after China, Vietnam, Brazil and Russia, but China has a chokehold because it controls almost 90% of refining capacity. The disruption brought into focus tag-team efforts by US and India to overcome the Chinese monopoly even as Washington scours the globe — from Greenland to Ukraine—for deposits and refining capacity.

Earlier this year, in a bipartisan US effort, the Biden govt lifted decades-old sanctions on the state-owned Indian Rare Earths Ltd and the incoming Trump administration followed up by announcing during PM Modi's visit to Washington a US-India 'Strategic Mineral Recovery' to recover and process critical minerals.

"Recognising the strategic importance of critical minerals for emerging technologies and advanced manufacturing, India and the US will accelerate collaboration in research and development and promote investment across the entire critical mineral value chain, as well as through the Mineral Security Partnership, of which both the US and India are members," the two sides said in a statement.

Industry experts say that's a start but nowhere near meeting the critical needs of US (and India), given the headstart China has in the field. In fact, even the Pentagon relies on Chinese-processed rare earth elements for components like permanent magnets in F-35 jets, laser targe-



ting systems, and missile guidance systems — a shock realisation that has propelled the Trump White House to urgently look for other sourcing.

Elon Musk, who needs rare earths for a range of his tech products from EVs to rockets, was among those who reacted cautiously to China's squeeze. "Important to note that what matters is the ability to refine rare earth elements (which are NOT actually meaningfully rare) and manufacture magnets for use in electric motors. People understandably tend to think that rare earth mineral deposits are what's scarce, given the name. That is false. They're everywhere," Musk said in a post on X, conceding that as with lithium, what China has that others lack is the heavy industry of refining the minerals. In fact, even US-mined material is often sent to China for processing.

# Dr. Bhimrao Ramji Ambedkar

Babasaheb Ambedkar-

The Father of Indian Constitution

(14 April 1891- 06 December 1956)



#### Driei Prome

- A social reformer, jurist, economist, author and thinker of comparative religions
- Labour member in the Executive Council of Viceroy (1942)
- Chairman of the Drafting Committee for the new Constitution
- First Law Minister of India
- Posthumously awarded Bharat Ratna (1990)

## Contributions

- Led the Mahad Satyagraha in 1927 against Hindus
- Participated in all three Round Table Conferences
- Signed the 1932 Poona pact with Mahatma Gandhi to abandon the idea of separate electorates for the depressed classes

The reserved seats for depressed classes were increased from 71 to 147 in provincial legislatures and to 18% in the Central Legislature.

- Opposed the special status of J&K (Article 370)
- Supported Uniform Civil Code
- Referred Article 32 as "soul of the Constitution and very heart of it"

## Resignation and Buddhism

- Differences over Hindu Code Bill led to his resignation from Cabinet in 1951
- Converted to Buddhism; his death is observed as Mahaparinirvan Diwas

## Important Journals

- Mooknayak (1920)
   Bahishkrit Bharat (1927)

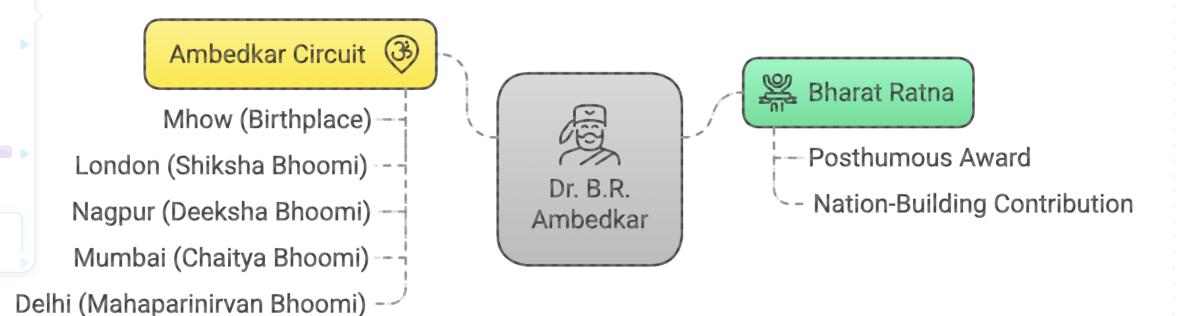


- Annihilation of Caste
- Buddha or Karl Marx
- The Untouchable: Who are They and Why They Have Become Untouchables
- The Rise and Fall of Hindu Women

## Organisations

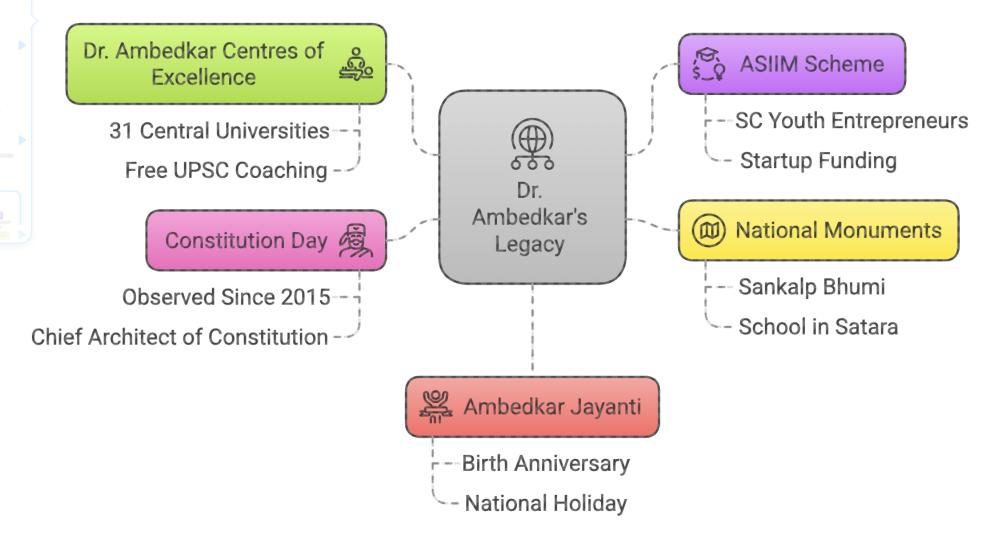
- Estd. 'Bahishkrit Hitkarini Sabha' (1923)
- Founded Independent Labour Party (1936)
- Founded Scheduled Castes Federation (1942)

## Dr. B.R. Ambedkar's Legacy and Recognition





### Dr. Ambedkar's Legacy: Initiatives and Recognition



# Which of the following parties were established by Dr. B. R. Ambedkar? (2012)

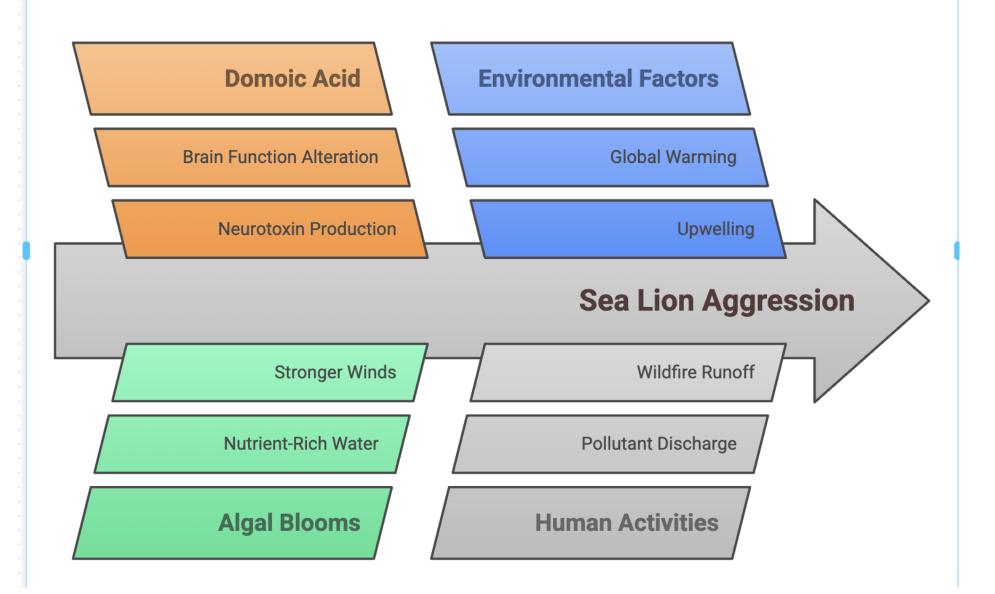
- 1. The Peasants and Workers Party of India
- 2.All India Scheduled Castes Federation
- 3. The Independent Labour Party

## Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

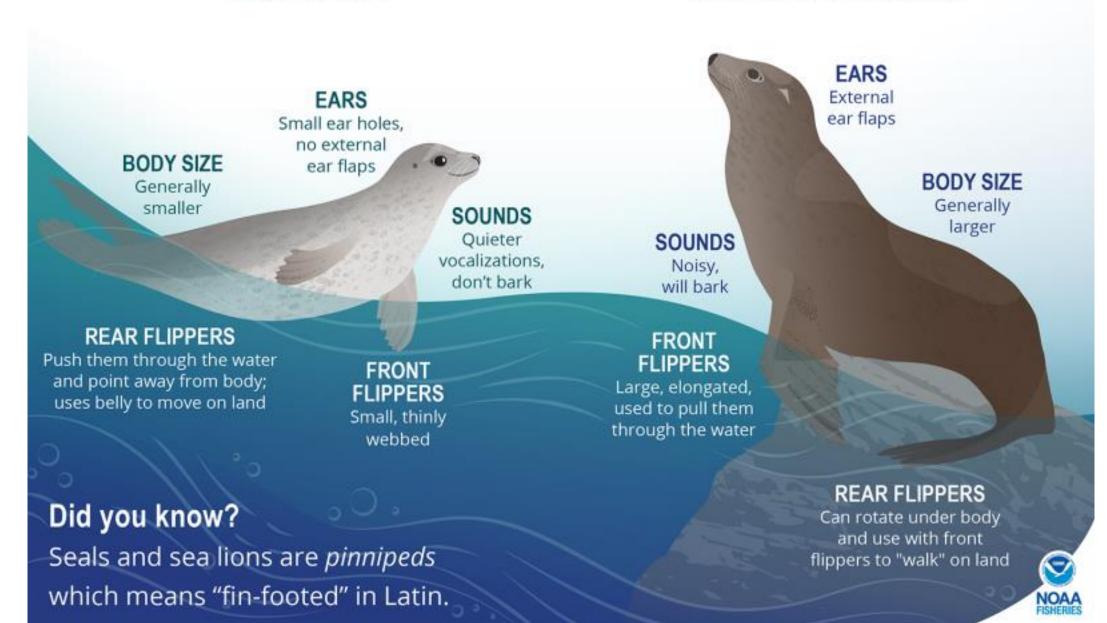
## Toxic Bloom Turns Sea Lions Aggressive

### **Causes of Sea Lion Aggression in California**

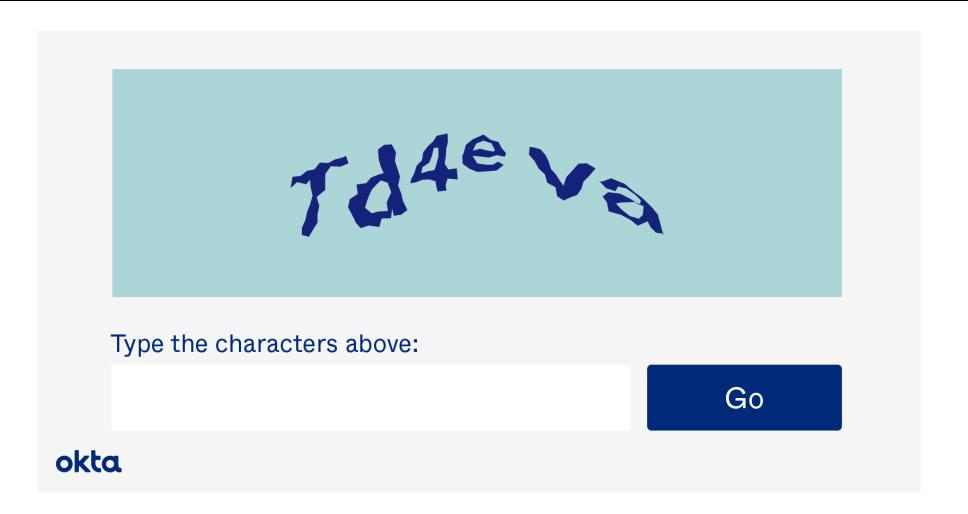


## SEAL

## **SEA LION**



## CAPTCHA



CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) is a challenge-response test used to distinguish bots from human users, enhancing online security and protecting user data.

Bots are automated software programs that perform repetitive online tasks

#### **Evolution of CAPTCHA Technology**



Luis von Ahn creates CAPTCHA to block bots.

Initial CAPTCHA uses distorted text challenges.







reCAPTCHA uses scanned book words for challenges.

Google introduces Invisible reCAPTCHA using behavioral analysis.

Invisible reCAPTCHA





Modern CAPTCHA uses image recognition and interaction tracking.

CAPTCHA blocks bots to prevent fake accounts and spam.



### **PLANT HORMONES**

HORMONE	FUNCTION	LOCATION					
Gibberellins	Increase the speed of seed germination; promote stem elongation; induce early blooming of flowers; increase fruit size	Shoot and root apical meristems; seeds					
Auxins	Stimulate stem elongation; control seedling orientation; stimulate root branching; promote fruit development	Apical meristems; immature plant tissue					
Ethylene	Increases the speed at which fruit ripens; stimulates leaf dropping and the death of flowers	All parts of the plant including the fruits					
Abscisic acid	Inhibits growth and reproduction; inhibits seed germination; stimulates closure of stomata	Leaves; fruits; root tips; seeds					
Cytokinins	Cause rapid cell division, in conjunction with auxin; induce seed germination; initiate new branches from lateral buds	Roots and fruits, primarily					

# Word of the day

## **Chary:**

characterised by great caution and wariness

Synonym: cagey

**Usage:** She had been chary of telling the truth.

Pronunciation: newsth.live/charypro

International Phonetic Alphabet: /ˈtʃɛəɹi/

