

# DAILY PT POINTERS

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### The Hindu-Health(GSII)-Page 7

2014 and 2019. However, the in

crease was similar among those

who were enrolled in PFHI

Table 1C shows the share of

# PMJAY did not reduce patients' health expenses: Chhattisgarh study

#### Data points to 'double-billing', where hospitals claim money from insurance as well as from patients

#### DATA POINT

#### The Hindu Data Team

n analysis of the effectivehospitalisations which happened scheme has not increased utilisain a private hospital. Notably tion of hospital care. Also, the among those enrolled in PFHI scheme did not reduce the out-ofpocket expenditure (OOPE) for schemes, the share of hospitalisahospitalised patients. Moreover, tions in private hospitals increased from around 33% to 45% between the data also pointed to the possibility of "double-billing", where 2014 and 2019. Among those who the hospitals will claim money were not enrolled, this share re

schemes (an increase from 3.3% to 6%) and those who were not en-Samir Garg, Kirtti Kumar Bebarta and Narayan Tripath rolled in one (2.9% to 5.7%). This in BMC public health, a peer-reviewed open-access shows that the PHFI schemes, in scientific journa particular the PMJAY have not led

Table 2 able 2A: The table shows the mean out-of-pocket xpenditure (OOPE in ₹) for hospitalisations Type of 2014 2019 scheme hospita Public Private 15,280 22,929 26.108 Public 2,633 RSBY 26.326 Private Public 3.078 PMJAY 19,375 Private Public 3,506 41.154 Private



- An analysis of the effectiveness of the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (PMJAY) in Chhattisgarh shows that the scheme has not increased utilisation of hospital care. Also, the scheme did not reduce the out-of-pocket expenditure (OOPE) for hospitalised patients. Moreover, the data also pointed to the possibility of "double-billing", where the hospitals will claim money from the insurance provider but charge the patients illegally for the same service.
- AB-PMJAY is the world's largest Government funded health assurance scheme.
- AB-PMJAY provides health assurance of up to Rs.5 Lakh ٠ per family per year for secondary and tertiary healthcare hospitalizations. The beneficiary families under Ayushman Bharat – Pradhan Mantri Jan Arogya Yojana (AB-PMJAY) have been identified from the Socio Economic Caste Census (SECC) of 2011 on the basis of select deprivation and occupational criteria across rural and urban areas.

### The Hindu-Geography(GSI)-Page 18

### Catatumbo lightning: a torrent of current

#### Arkatapa Basu

Catatumbo lightning is a mesmerising natural phenomenon that occurs over the Catatumbo River in Venezuela, where lightning strikes almost continuously. This phenomenon primarily happens at the mouth of the Catatumbo River, where it meets Lake Maracaibo, the largest lake in Venezuela. A convergence of several factors give rise to the unique conditions required for Catatumbo lightning. Warm, moist air from the Caribbean Sea is pushed towards the Andes mountains, where it collides with cooler air descending from the peaks. This collision

creates a perfect storm of sorts, as the warmer air is forced to rise rapidly by the shape of the local landscape. And as it does, it cools and condenses, forming towering cumulonimbus clouds.

Meanwhile, the combination of strong winds and temperature differentials generates electrical charges within these clouds. The cumulonimbus clouds sometimes reaching heights of more than 5 km — load up on static electricity. When the electrical potential within the clouds becomes too great, it discharges in the form of lightning. Catatumbo lightning is distinguished by its frequency and duration: the strikes occur for up to 160 nights in a year, with an



A convergence of several factors give rise to the unique conditions required for Catatumbo lightning, GETTY INAGES/ISTOCKPHOTO

average of 28 lightning strikes per minute at its peak. Thanks to this constant flow of current, the area has earned the title of "the lightning capital of the world".



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- Catatumbo lightning is a mesmerising natural phenomenon that occurs over the Catatumbo River in Venezuela, where lightning strikes almost continuously. This phenomenon primarily happens at the mouth of the Catatumbo River, where it meets Lake Maracaibo, the largest lake in Venezuela.
- A convergence of several factors give rise to the unique conditions required for Catatumbo lightning. Warm, moist air from the Caribbean Sea is pushed towards the Andes mountains, where it collides with cooler air descending from the peaks.
- This collision creates a perfect storm of sorts, as the warmer air is forced to rise rapidly by the shape of the local landscape. And as it does, it cools and condenses, forming towering cumulonimbus clouds

### The Hindu-Welfare Schemes(GSII)

# Concerns over criteria for scholarship scheme for SCs

tion.

#### A.S. Jayanth KOZHIKODE

creamy layer has been Disbursal of post-matric scholarships for students made applicable to the from the Scheduled Caste educational assistance for the SCs. If this is going to (SC) category is reportedly be rigorously applied, a getting delayed in Kerala in vast majority of students the wake of the changes introduced in its eligibility belonging to the category aspiring for higher educacriteria. tion will be out of the ambit According to functionaries of the Ambedkar Proof e-grants or scholargressive Democratic Fo- ships," Mr. Joseph says. rum (APDM), the revised scholarship scheme was Practical problems launched by the Union go-Before the 2021-22 academvernment in March 2021. ic year, the fees for stu-The Kerala government dents from SC, ST, and the Other Eligible Communinotified the changes in January 2023. ties were remitted by the Shaju V. Joseph, general government directly to the secretary of the forum, educational institutions. As per the latest provipoints out that only those sions, the fees are directly whose annual family in-

come is up to ₹2.5 lakh are eligible for the scholarship now. "The principle of

When the Government of Kerala fails to remit its share on time, the remittance of the Centre will get delayed. SHAJU V. JOSEPH General secretary, APDM paid to the student's bank the Union government account. The student should withdraw the fee and remit it to the respective educational institution. The academic allowances (lump sum grant,

monthly stipend or month-

ly pocket money) also

reach the bank account.

Mr. Joseph says that though

this arrangement appears

to be simple, the students time. They are prevented are facing practical prothem from appearing in exams. Such students drop blems in its implementaout, Mr. Joseph says.

Another feature of the

scheme is the cost-sharing Met by State govt. Activists point out that the between the Union and the State governments in the those belonging to the SC category have been able to proportion of 60:40. "But the catch is that only after make some modest prothe Government of Kerala gress in their social life only because of their educaremits its share to the bank accounts of the students, tional achievements. These new provisions makes its remittance. could arrest those too, they When the Government of say. "The entire education-Kerala fails, which hapal assistance to the SC stupens always, to remit the dents hailing from families full amount of its share on with annual income of over time, the remittance of the ₹2.5 lakh is met by the Union government will get State government out of its delayed," Mr. Joseph says. funds. The State is not get-Those who do not receive ting matching grant from the scholarship are not the Union government for able to pay their fees on this," Mr. Joseph says.

- The Post Matric Scholarship Scheme for SC Students (PMS-SC) is a Centrally Sponsored Scheme for the SC students for studies in India only whose Parent/Guardian's income should not exceed Rs. 2.5 lakh per annum.
- The objective of the scheme is to provide financial assistance to the Scheduled Castes students and to appreciably increase the Gross Enrolment Ratio of SC students in higher education with a focus on those from the poorest households. .



### Indian Express-Economy(GSIII)-Page 1

# I-T clause to ensure MSMEs are paid on time creates hurdle

Large companies shift to unregistered MSMEs as tax liability piles up

#### AANCHAL MAGAZINE NEW DELHI, MAY 5

A NEW PROVISION in the Income-Tax Act in Budget 2023-24 that aimed to secure payments to micro, small and medium enterprises (MSMEs) within 45 days of supply of goods or services has resulted in a peculiar problem — that of large companies canceling orders to registered MSMEs and placing these with unregistered MSMEs.

While some MSME associations have approached the Supreme Court against the new norm, the Union MSME Ministry is learnt to have reached out to industry players for solutions. It has asked stakeholders to suggest ways to resolve the issues arising from the I-T Act and to recommend possible alternate mechanisms for timely clear-



THE NEW clause aimed to secure MSME bills are paid by business houses within 45 days against the prevailing business cycle of 90-120 days. This is ironically hurting some MSMEs with firms shifting business to unregistered micro and small units. The Ministry has now sought suggestions to resolve this.

#### ance of MSME bills.

This is the second time the Ministry is reaching out to MSMEs. A fortnight after CONTINUED ON PAGE 2

- The Finance Act 2023 introduced an amendment to the Income Tax Act by adding clause (h) to Section 43B. This clause stipulates that any payments owed to MSMEs, not resolved within 45 days, will not qualify for tax deductions until the payment is made.
- The aim is to motivate larger entities to prioritise their settlements with MSME counterparts, thereby promoting a more robust economic environment for these smaller businesses.
- Section 43B(h) is applicable to transactions that involve the purchase of goods or services from enterprises registered under the MSMED Act, 2006.
- Section 43B(h) of the Income Tax Act, introduced in 2023, aims to ensure timely payments to Micro, Small and Medium Enterprises (MSMEs). Here's a breakdown of what it means for you:



### Indian Express-Environment (GSIII)-Page 12

## FOREST DEPT AWAITS MINISTRY NOD TO TRANQUILISE TADOBA-ANDHARI TIGERS THAT WILL BE MOVED Maharashtra gears up for tiger translocation to Sahyadri reserve in bid to revive numbers

#### NIKHIL GHANEKAR NEW DELHL MAY 5

THE MAHARASHTRA forest department is gearing up for ranslocation of a few tigers from the Tadoba-Andhari Tiger Reserve (TATR) in Chandrapur to Sahyadri, the lone tiger reserve in the state's western region. The Sahyadri Tiger Reserve (STR) is one of only five tiger reserves in the country – Kaval in Telangana, Kamlang in Arunachal Pradesh, Dampa in Mizoram and Satkosia in Odisha being the other four – with zero tigers within the reserve and the translocation is part of a longern Western Ghats forests. Satara, Sangli and Ratnagiri districts in western Maharashtra. ficials said. Spread over 1,165 sq km, the re-



A tiger caught on a camera trap inside the reserve in 2018. File

serve was notified in 2010 by Conservation Authority (NTCA) amalgamating the Chandoli na- had cleared the translocation tional park and Koyna wildlife plan in October 2023. In the inireserve in Karnataka, according sanctuary. The Maharashtra for-tial phase, a male tiger or a pair of to the government's All India term plan to revive the popula- est department is awaiting the male and female tigers would be Tiger Estimation report, 2023. tion of the big cats in the north- final go-ahead from the Union translocated from TATR to STR. Environment Ministry to tran-"Once we have the permisestimation exercise in Sahyadri, STR straddles Kolhapur, quilise the tigers in TATR for the sion to tranquilise the tigers unno evidence of tiger was captranslocation process, senior ofder Section 12 of the Wildlife tured on camera traps. However, senior scientist, Wildlife Institute Protection Act, we will go ahead in December last year a camera of India, who is providing tech-The National Tiger with the field work. We have cre- trap captured a tiger within the nical support to the state.

ated a special vehicle to transreserve limits. The 2023 tige port the big cats," said Maheep population estimation report highlighted the threats posed to Gupta, Principal Chief the wildlife corridor between Conservator of Forests (Wildlife). Maharashtra forest department. the STR and Karnataka's forests The translocation project is an from mining activities, road projmportant step in conservation of ects and human settlements. igers in the forests of the north-The translocation of tigers ern Western Ghats, which form a from TATR will be followed by ev wildlife corridor between their translocation from the Maharashtra and Karnataka. Pench Tiger Reserve landscape This corridor allows connecwhich is spread over tivity of tiger population in Maharashtra and Madhya Pradesh. In all, the plan involves Sahyadri reserve, Radhanagari wildlife sanctuary, Amboli retranslocation of eight tigers serve forest, Mhadei wildlife three males and five females. sanctuary in Goa and Bhimgad The translocation is part of wildlife sanctuary and Kali tiger the phase-II of the tiger recovery

During the 2022 population

project. "There will be a soft re-

lease, which involves keeping

the tiger in an enclosure, and it

would be monitored closely be-

fore releasing it in the tiger re-

serve's habitat." said K Ramesh

- The Sahyadri Tiger Reserve is located in the Sahyadri Ranges of Western Ghats in Maharashtra.
- These ranges form a common boundary between Maharashtra, Karnataka and Goa, and comprise of rich evergreen, semi-evergreen and moist deciduous forests.
- It is the first Tiger Reserve of Western Maharashtra and the fourth Tiger Reserve of the State spreading over two Protected Areas of Koyana Sanctuary (KWLS) and Chandoli National Park (CNP).



### Indian Express-S&T(GSIII)-Page 13

# What is artificial general intelligence & why are people worried about it?

**BIJIN JOSE** NEW DELHI, MAY 5

(AGI). Despite Altman's repeated endorse- think of problems to find solutions.

ment of AGI, many in the global tech community are apprehensive about it.

What is artificial general intelligence? more common form of AI, also known as frontier in this development. AGI refers to a machine or software that "narrow AI", lies in their scope and capabili-

can emulate human cognitive abilities, such ties. Narrow Al performs specific tasks such Howold is AGI as an idea? thatit can perform any task that a human can a simage recognition, translation, or playing The idea of ACI first emerged in 1950 in tegrating and analysing vast datasets, far certrs about its environmental impacts, in ACI, with Hinton even comparing ACI's do. This includes reasoning, common sense, games like chess - at which it can outdo hu- a paper by Alan Turing, the father of theoret- beyond the capabilities of humans. In fi- terms of energy consumption and genera- dancers to that posed by nuclear weapons. abstract thinking, background knowledge, mans - but it remains limited to its set pa-ical computer science and AL In Computing nance and business, AGI could automate tion of e-waste. differentiating between cause and effect.et. rameters. ACI on the other hand. envisions a Machinery and Intelligence, he introduced various processes and enhance overall de-Humanskamthrough their experiences broader, more generalised form of intelli-the so-called Turing test – if a machine can cision-making offering real-time analytics and widespread socio-economic disparity. of AGI is in line with human values and

- by talking to people or observing things; gence that is not confined to any particular engage in a conversation with a human and market predictions with accuracy. AGI Power would be concentrated in the hands safety standards.

readingarticles – which then shape our decision-making (often subconsciously) to summit of AI development, which has al- strated human intelligence. solve any given problem, or come up with a ways been about broadening capabilities. When Turing wrote this paper, Al was a alised education worldwide. IN A recent interview, OpenAI CEO Sam new one. ACI seeks to replicate this, Think ChatGPT, launched in November 2022, distant dream – even computers were in In an interview given to The Wall Street Altman expressed his commitment to in- of a super intelligent robot friend, who can piqued global interest due to its ability to their ascency. Yet, his work kelto wide-range- Journal, Altman said AGI would lead to a 'lot on AGI, it might in theory even lead to the vest billions of dollars towards the devel- understand everything that you say, learn come up with human-like text responses. ing discussions about the possibility of such of productivity and economic value", and loss of basic human skills and capabilities. opment of artificial general intelligence new things just the way you do, and even Since then, as billions of dollars have been machines, their potential benefits, and risks. would have unprecedented "problem-solvpumped in to fuel research in the field, AI models have be-How can AGI help us? EXPLAINED How is AGI different from the Al in use? come progressively better. The The main difference between AGI and the creation of AGI is like the final

by reading books, watching television, and task. This makes it more human-like. without being detected as a machine, ac- could also transform adaptive learning sys- of those who control AGL

stance, in healthcare, it can re-fuel widespread apprehensions.

ities to come up with suitable regulations. ing capabilities and creative expression". its actions difficult to understand and predict. This could conceivably lead to a sci-fi In theory, AGI has innu- So why is there scepticism about AGI? horror: AGI taking actions against human merable benefits. For in- Despite its promise, AGI continues to well-being

#### Al pioneers Yoshua Bengio, Geoffrey define diagnostics, treatment The amount of computational power Hinton, and Yann LeCun have often warned planning, and personalised medicine by in-required to develop AGI systems raises con-about the catastrophic outcomes of creating Today, most experts advocate stringent

students, democratising access to person- nerabilities, and outrun governments' abil-

### What is AGI?

AGI refers to a machine or a software that can **perform any** intellectual task that a human can do. This includes reasoning, common sense, abstract thinking, background knowledge, transfer learning, ability to differentiate between cause and effect, etc. In simple words, AGI aims to emulate human cognitive

abilities such that it allows it to do unfamiliar tasks, learn from new experiences, and apply its knowledge in new ways.

AGI has innumerable positive implications. For instance, in healthcare, it can redefine diagnostics, treatment planning, and personalised medicine by integrating and analysing vast datasets, far beyond the capabilities of humans. In finance and business, AGI could automate various processes and enhance the overall decision-making, offering real-time analytics and market predictions with accuracy.

