



Daily News Analysis



Pooja Sharma

WEDNESDAY
Joly 17, 2024
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Vol. 2 · No. 170

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KANCHANJUNGA TRAIN CRASH
PROPOS GIVES INTERESE ON

Probe finds lapses on multiple levels Bypolls: an indication of anti-incumbency
BJP's vote share falls in favour of INDIA bloc



Rise in farming area may ebb food prices BUSINESS » PAGE 12

INSIDE

श्री अमित शाह

Haryana raises creamy layer ceiling of OBCs

GURUGRAM Ahead of the Assembly elections, Haryana governme on Tuesday raised the income ceiling for creamy layer of Other Backward Classes from

1.5 tmcft of Cauvery water reaching T.N.

BENGALURU

Karnataka Deputy Chief

Minister D.K. Shivakumar told
the Assembly that 1.5 tmcft o

Cauvery water is flowing daily
into Tamil Nadu, as per the
records at the Biligundlu
gauging station on the
inter-State benundary, a page

4 soldiers, policeman killed in Doda encounter

The counter-terrorist operation in Jammu was communing when last reports came in Detence Minister Rajanta using speaks to Army cine; L2 to 14 terrorists are estimated to be in the area, Army has been conducting operations with the police to eliminate foreign terrorists who have infiltered into Udhampur, Doda, Kishtwar and Bhaderwah areas

Dinakar Per NEW DELHI

our Army personnel, including a Captain, and a Jammu
and Kashmir policeman
were killed in a counterterrorist operation at Doda
in Jammu that began on
Monday night and was
continuing late on Tuesday
night. Army chief General
Upendra Dwivedi briefed
Defence Minister Rajnath
Singh on the situation on
the ground on Tuesday

morning.
The Army personnel
who were killed have been
identified as Captain Brijesh Thapa, Naik D. Rajesh,
Sepoy Bjendra, and Sepoy
Ajay. This was the latest in
a series of militant attacks
over the past few months
in Jammu and Kashmir,
with terrorist activity particularly shifting to the
Jammu region, which has

and security forces.
"The Minister was apprised of the ground situation and the ongoing counter terrorist operation in Doda by the Army chief," Mr. Singh's office said in a post on X. "Indian Army stands firm with the be reaved families in this hou of grief," the Army said in a post of grief," the Army said in the present the properties of the grief of the Army said in the present the properties of the pr

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la area, split into three

Strings

Be on alert: Army Jawans stand guard at Lal Draman in Doda district near the site of a gun battle, on Tuesday. SPECIAL ARRANGEMENT

said. Based on intelligence inputs, the Army and Jam mu & Kashmir Police launched a joint operation in the Urarbaggi area about 10 km north o

Doda.

"At about [8:40 p.m.] on
July 15, the search party
was able to establish con-

tact with the terrorists hiding in the area, which is a thickly forested and mountainous area with restricted visibility due to low

The four Army person nel were injured in the in succumbed to their injuries, he said.

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2021, over 30 A
personnel have been k
in terror incidents in
area, while over 40 te
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Defence sources sa
one of the major reasor
for the high casualty ra

was the lack of credib ground intelligence in the Jammu region south of the Pir Panjal.

Lack of security forces
This is also exacerbated by
the reduced number of security forces in the area in
recent years. However,
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communication equipment being used by the terrorists, which has made interception difficult.

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Hinting at Pakistan's
continued involvement ir
promoting terror in the
State, Lt. Col. Bartwal said
the analysis of a large
quantity of warlike stores
recovered from the dea
terrorists reveals the hand
of "inimical agencies"
from across the border.

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The Hindu Analysis: 17

- 1. Is Terrorism shifting to Jammu Region? (Doda Terrorist Encounter)
- 2. Juvenile Justice
- 3.LUCA: Last Universal Common Ancestor

Doda Terrorist Encounter

4 soldiers, policeman killed in Doda encounter

The counter-terrorist operation in Jammu was continuing when last reports came in: Defence Minister Rajnath Singh speaks to Army chief; 12 to 14 terrorists are estimated to e in the area; Army has been conducting operations with the police to eliminate foreign terrorists who have infiltrated into Udhampur, Doda, Kishtwar and Bhaderwah areas

our Army person-nel, including a Cap-tain, and a Jammu nd Kashmir policem nd Kashmir policeman were killed in a counterration at Doda Jammu that began on londay night and was ontinuing late on Tuesday ight. Army chief General Ipendra Dwivedi briefed Defence Minister Rajnath ingh on the situation on he ground on Tuesday

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and security forces.
"The Minister was apprised of the ground situaprised of the ground situa-tion and the ongoing coun-ter terrorist operation in Doda by the Army chief," Mr. Singh's office said in a post on X. "Indian Army stands firm with the be-reaved families in this hour of grief," the Army said in its own post.

Infiltrators in Doda

"Indian Army has been conducting a series of joint and coordinated operaand coordinated opera-tions with the police to eliminate foreign terrorists who have infiltrated and are moving in the upper reaches of Udhampur, Doda, Kishtwar and Bhaderwah areas and thereafter to Kashmir Valley," the Army's Jammu spokesperson, Lt. Col. Suneel Bart-

wal, said on Tuesday.

Twelve to 14 terrorists
were estimated to be in the Doda area, split into three



Be on alert: Army jawans stand guard at Lal Draman in Doda district near the site of a gun battle, on Tuesday. SPECIAL AR

said. Based on intelligence inputs, the Army and Jam-mu & Kashmir Police launched a joint operation in the Urarbaggi area, about 10 km north of

Doda.
"At about [8:40 p.m.] on July 15, the search party

tact with the terrorists hiding in the area, which is a thickly forested and mountainous area with restricted visibility due to low clouds and rain," Lt. Col. Bartwal said. The four Army personsuccumbed to

their injuries, he said.

Additional troops and outpment, including

equipment, including drones and other technical resources, were being used to flush out the terrorists.

Similar operations were

nel were injured in the in-

added. There has been a dis-

tinct shift in terrorist vio-lence to the south of the Pir Panjal in recent months, niscent of the early 2000s when this area was hotbed of terrorism.

Since May this year, 13 members of the security forces have been killed in the area, including nine

Army personnel, and one person each from the Air Force, Border Security Force, Central Reserve Police Force, and the JKP.

Since November 2021, over 30 Army ersonnel have been killed area, while over 40 terro-rists have been neutralised. Defence sources said

one of the major reasons

was the lack of credible ground intelligence in the Jammu region south of the

Lack of security forces This is also exacerbated by the reduced number of se curity forces in the area in recent years. However sources said that some ad ditional troops have been brought in recently. Anoth er challenge is the im proved Chinese-mad communication equip ment being used by the ter rorists, which has made in terception difficult. Hinting at Pakistan

continued involvement in promoting terror in the State, Lt. Col. Bartwal said the analysis of a large quantity of warlike store recovered from the dear terrorists reveals the hand of "inimical agencies" from across the border.

RELATED REPORTS



Doda Terrorist Encounter

- On Monday, four Army personnel and a J&K police official were killed by unidentified terrorists in the Desa forest area in Doda district of Jammu.
- In the past three years, Jammu and Kashmir has witnessed the killing of 119 security forces personnel, and over 40% of these killings were reported from the Jammu division.



Recent encounters reported in Jammu







Is a new pattern emerging?

- From 2021, many security personnel have been killed in various incidents initiated by terrorists in **Poonch**, **Rajouri**, **Kathua**, **Reasi**, **Doda**, **and Udhampur** districts, a deviation from the past three years, when the Kashmir Valley was the epicentre of such incidents.
- Compared with five terrorist incidents and two security personnel killed in the Valley this year, Jammu has seen six such attacks in which 12 security personnel were killed.
- The Jammu region was a hotbed of militancy in the late 1990s and the early 2000s.

What could be the possible reasons?

- 1. Lack of credible ground intelligence in Jammu Region
- 2. Reduced number of security forces, making the area vulnerable: After the 2020 Galwan clashes in eastern Ladakh, a large contingent of the Army was pulled out of Jammu and deployed along the China border.
- 3. **Improved Chinese made communication instruments** being used by foreign terrorists which has made interruption difficult.
- 4. Post-reading down of Article 370 in J&K in August 2019, and based on indicators such as zero stone-throwing events, no strikes, and a boom in tourism, the government has claimed huge success in the Kashmir Valley in terms of the overall security scenario. "Reviving terrorism in Jammu upsets this narrative". The demography of the area is such that the attacks could flare up communal tensions too, leading to social unrest.



Pir Panjal Range

Note: The Bharatiya Nyaya Sanhita (BNS) adds terrorism as an offence. It is defined as an act that intends to threaten the unity, integrity, and security of the country, intimidate the general public or disturb public order.



Juvenile Justice

Trying juveniles as adults is not the answer



found to have committed a crime, the JI Act empowers the multidisciplinary JIB to tailor a response befulting the circumstances and the adolescent concerned. A conviction can result in institutionalisation of the offender, but with the express goal of rehabilitation. The JIBS can prescribe interventions such as therapy, psychiatric support, and deaddiction during and after institutionalisation. An individual care bain is prepared for the institutionalisation. An individual care plan is prepared for the adolescent's rehabilitation keeping in mind their socioeconomic conditions and the circumstances of the crime. This approach has the potential to foster accountability and healing, creating opportunities for justice that are often unatainable within the rigid confines of the punitive adult justice system.

Specifically in cases of deaths caused by motor accidents,

lives. A report receases in in-Kevin Thompson and Sarah Joyce found a reduction in recidivism amongst offenders exposed to VIPs in North Dakota. While this can never change the life-altering incident itself, it personalises the loss and grief experienced by the

accountability and kensitivity to fellow human beings to foster their transformation into responsible adults. Facing the victims or their dimilies can be a powerful and transformative experience for offenders. Responses of the juvenile justice system can include the family members and communities of both the offender and the victim and can involve counselling the offender's family. This approach recognises that crime is often the outcome of a complex interplay of societal and

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The issue lies not in the perceived leniency or "misuse" of the juvenile justice system, but rather in the failure to fully implement its foundational principles



Juvenile Justice

n May, a speeding car, allegedly driven by a teenager, killed two young techies in Pune. As prescribed by the Juvenile Justice (Care and Protection of Children) Act, or the JJ Act, 2015, the adolescent was initially brought before the Juvenile Justice Board (JJB), which granted him bail under seemingly lenient conditions. This decision, coupled with the tragic outcome of the incident and emerging accusations of privilege being used to tamper with the investigation, sparked public outrage. Following the backlash, the IIB modified its order, directing the adolescent's detention in an Observation Home. This was challenged before the Bombay High Court, which directed his release on the ground that he was granted bail in accordance with due procedure.

The High Court noted that the JJ Act is "not only a beneficial legislation, but is also a remedial one." The push by some to

Being tried as an adult

The JJ Act allows for the possibility of trying adolescents above 16 as adults if they are accused of committing a "heinous" offence. A "heinous" offence is one with a minimum punishment of seven years or more. Offences such as culpable homicide and causing death by negligence, which are common in drunken driving cases. are not "heinous" offences because they do not have a prescribed minimum punishment. The JJ Act, amended in 2021, now categorises an offence that has no minimum sentence but has a maximum sentence of more than seven years as a "serious offence" which, nonetheless, does not merit the transfer of a case to the adult criminal justice system.

In any case, when an adolescent above 16 years of age is



accused of a "heinous" offence, the JJB, a quasi-judicial body, conducts a preliminary assessment to determine if they should be tried as an adult. If it concludes that there is such a need, the adolescent is transferred to a sessions court, which independently assesses the suitability of trying the adolescent as an adult.

These protections are based on the understanding that adolescence is a temporary developmental stage characterised by immature judgement and underdeveloped impulse control. This is recognised by the Supreme Court in Dr. Subramanian Swamy v. Raju (2014) and by the UN Committee on the Rights of the Child. Consequently, the juvenile justice system emphasises rehabilitation and social reintegration over punishment, acknowledging that adolescents, due to their high neuroplasticity, are more receptive to change.

attempted in Indonesia and the U.S. that enable offenders to face their victims and focus on personal accountability. In some jurisdictions, convicted drunk drivers are required to face a victim impact panel (VIP) of relatives of victims who express how the incident affected their lives. A report released in 2022 by Kevin Thompson and Sarah Joyce found a reduction in recidivism amongst offenders exposed to VIPs in North Dakota. While this can never change the life-altering incident itself, it personalises the loss and grief experienced by the victim and gives an opportunity to the offender to express regret.

Practices like this recognise the victim and their family as central to the process of justice dispensation in contrast to the traditional penal system where th victim is reduced to a witness or i not involved at all as the state takes over prosecution. They create space for the needs of the victims that may range from compensation to an apology or explanation or acknowledgement of responsibility by the offender.

takes over prosecution. They create space for the needs of the victims that may range from compensation to an apology or explanation or acknowledgement of responsibility by the offender. They also expose adolescents to an education regarding accountability and sensitivity to fellow human beings to foster their transformation into responsible adults. Facing the victims or their families can be a powerful and transformative experience for offenders. Responses of the juvenile justice system can include the family members and communities of both the offender and the victim and can involve counselling the offender's family. This approach recognises that crime is often the outcome of a complex interplay of societal and psychological factors.

However, the potential of the juvenile justice system remains unfulfilled. Trying adolescents as adults sidesteps the problem of weak implementation of the juvenile justice system. The issue lies not in the perceived leniency or "misuse" of the system, but rather in the failure to fully implement its foundational principles.



Juvenile Justice (Care and Protection of Children) Act, 2015

• Juvenile Justice (Care and Protection of Children) Act, 2015

The Act provides for a separate system of juvenile justice that is different from the adult criminal justice system. This means that children in conflict with the law are not treated as criminals. They are treated as children who need care and protection

- It was enacted in 2015 and replaced the previous Juvenile Justice Act, 1986.
- The Act defines a child or Juvenile as a person who is below the age of 18 years.
- Gives definitions for petty (maximum of 3 years imprisonment), serious (3 to 7 years) and heinous crimes (7 years imprisonment) by children.
- Minors in the age group 16 18 years to be treated as adults in the case of heinous crimes.
- For this, the Juvenile Justice Board would assess the child's physical and mental capacities, his/her ability to comprehend the consequences of the crime, etc. and determine whether the child can be treated as an adult.

Note: Any child below the age of 7 cannot be convicted under any law for any crime

Juvenile Justice (Care and Protection of Children) Act, 2015

- Child Welfare Committee, Juvenile Justice Board and Special Observation Home:
 - Child Welfare Committees for producing of children before JJB within 24 hours of apprehension.
 - Juvenile Justice Boards. This focuses on speedy trial and individual care and rehabilitation of juvenile offenders. Juvenile Justice Board acts as a separate court for juveniles, comprises a judicial magistrate of the first class and two social workers, one of whom at least should be a woman.
 - Special Homes for rehabilitation of juvenile offenders



LUCA: Last Universal Common Ancestor

- The **origin of life on earth** is one of the world's most enduring mysteries.
- Scientists widely believe a combination of geological, climatic, and chemical processes gave rise to the building blocks of life.

Glimpses of LUCA, the life-form from which all other life descended

As mysteries go, a close second to the origin of life is how life-forms started to evolve. Researchers believe bacteria, archaea, and eukarya all originated from the last universal common ancestor. There is no fossil evidence of its existence, but the fact that modern genomes share so many features provides some clues



he origin of life on earth is on of the world's most enduring mysteries. There are a number of competing theories, but all of them lack concluste proof. Nonetheless, scientists widely believe a combination of geological, climatic, and chemical processes gave rise to the

In the 1920s, Alexander Oparin and J.
B. S. Haldane independently proposed their origin theories – the first of their skind. In 1924 and 1929, Oparin and Haldane, respectively, suggested the first molecules making up the earliest life forms gradually self-organised from a "primordal sourcy" in a young earth's the light of the primary of the primary of the delinguistics of the primary haldane.

hypothesis.

Researchers have also conducted bischemistry experiments and found seidence to support this hypothesis. A particularly famous one was the Miller-Urrey experiment in 1952, in which University of Chicago researchers Stanle Miller and Hardod Urrey showed their right conditions, inorganic compounds could give rise of complex organic compounds. Miller and Lardod Willer and Lardod

methane, ammonia, and water, and whe they applied a strong electric current like a lightning strike might have — the mixture contained amino acids, the building blocks of proteins. They report their discovery the very next year in the lowers U. Science.

presumed to mimic, the very fact that amino acids could be created in a broth of inorganic molecules was groundbreaking. Other researchers here proposed other particularly prominent one is that megocifie from space could have brought the building blocks or file, suitament by megocifie from space could have brought the building blocks or file, suitament by the building blocks or file, suitament by a country of the building blocks or file, suitament by a country of the building blocks or file, suitament by a country of the building blocks or file, suitament by a country of the building blocks or file, suitament by a country of the building blocks or file, suitament by a country of the building blocks or file and the building blocks of the building bl

LUCA and the molecular clock As mysteries go, a close second to the origin of life is how life-forms evolved to produce the rich diversity we see around us today. Researchers believe all three branches of life – bacteria, archaea, and eukarya – originated from a single cell.



Candelabra' bydrothermal vent on the Mid-Atlantic Ridge, which is 3.3 km underwater. In the past, scientists have found evidence of ancient life forms

O.U.C.A). There is no fossil evidence to support the existence of IU.C.A, but the fact that modern genomes share so many features provides some insights. An important concept that allows scientists to reconstruct the 'tree of life' is the theory of the molecular fock. Molecular biologist Emile Zuckerkandl and biochemist Linus Pauling proposed it in

subsequently improved it.

According to a simplified version of the heory, the rate at which mutations are didded or removed from a population's renome is proportional to the rate of cogniting new mutations, which is constant. Later studies also found that the mutation rate varies between species. Sing these two facts, researchers leveloped a way to estimate how much me could have passed between two

time could have passed between two
evolutionary events.

To calibrate the molecular clock to a
particular rate of mutations, researchers
establish links between a genome and
known events, such as the 'date' on whice
the first manuful evolved or the age of
certain fossils. These links act like
temporal benchmarks.

temporal benchmarks.

Thanks to the large number of genon sequences and fossils of various organisms, as well as the computing power available today, researchers routinely use the molecular clock to understand the evolution of various

previous suggestions about the crip infe on earth. For control, research have found fissel records of the east Australia, one of the few places on it depends on the recks are exaboveground and accessible due to the recks emerged around.

lived on the rocks emerged around 3-4 billion years ago. The current study, on the other name, pushes this date back by almost a billion years, almost on the heel of the birth of our planet toelf. The researchers also found some reasons to believe LICA may have had

Taken together, the findings are tremendously significant, not just for understanding how life emerged and evolved on the earth; they also speak to our ability to look for similar forms of life evolution they provide will also give a significant fillip to human ambitions to engineer synthetic organisms for various industrial, chemical, and biological processes on the earth, as well as to create or moderate ecosystems on other parises in the facture.



LUCA: Last Universal Common Ancestor

LUCA:

- Researchers believe all life originated from a single cell, called the last universal common ancestor (LUCA).
- Using a molecular clock, the team estimated when LUCA could have originated: around 4.2billion years ago, just 300 million years after the earth itself formed.
- Scientists suggested the LUCA could have created a 'secondary' ecosystem in which other microbes could have emerged.
- The researchers also found some reasons to believe LUCA may have had genes responsible for immunity, suggesting it had to fight off viruses.

Molecular clock

- An important concept that allows scientists to reconstruct the 'tree of life' is the theory of the molecular clock.
- The molecular clock is a term for a technique that uses the mutation rate of biomolecules to deduce the time in prehistory when two or more life forms diverged.



