

DEVELOPMENT WITHOUT DISCRIMINATION

None can deny the fact that the present Government under the leadership of Prime Minister Narendra Modi has succeeded in eliminating the biased-approach from the nation, as now it has been witnessed that all parts of the country are getting equitable response from the Government, irrespective of the political affiliations of that Governments of that State or UT. As for the Government each and every Indian is equal, all possible steps are being taken for their welfare so that the country can move ahead as a single entity without any type resentment or anguish among people. There is no doubt that taking a serious view of the underdevelopment and sufferings of some States and areas, like J&K, North East etc, the Government has paid focused attention for steering them out of the morass of misgovernance besides bringing them at par with other States and UTs, but on the whole it remained a hallmark of the ruling dispensation that it has worked with equal zeal and passion of development of all regions and States. At present, 70th Plenary Session of North Eastern Council (NEC), was held in Guwahati, Assam, which was chaired by the Minister for Development of North Eastern Region (DoNER), Tourism & Culture, G Kishan Reddy, MoS for DoNER & Co-operation, B L Verma and members of NEC consisting Governors and Chief Ministers of 8 North-Eastern states and other members. The other dignitaries would include Senior Officials from Centre, key Ministries of GoI & States and Chief Secretaries of the 8 states. Minister, MDoNER, G Kishan Reddy along with MoS B L Verma, Secretary MDoNER, Lok Ranjan, Secretary, NEC, K Moses Chalai reviewed the preparedness and modalities for the 70th Plenary Session of NEC in Guwahati.

During the two-day session there will be presentations from the Ministry of DoNER, NEC, the State Governments as well as selected Central Ministries on various developmental initiatives and future plans for the North East Region. The Plenary is expected to review the status of different projects in NER, deliberate and fast-track the progress of ongoing projects, confirmation of the proceedings of the 69th Plenary meeting, outlays by Central Ministries in the North Eastern Region and plans for the period of the financial year 2022-23 & beyond. The day one meetings focused on a variety of aspects related to the development of North Eastern Region, followed by addresses by Dignitaries. There were sessions on Vision and Strategy for NER as Growth Engine, Aligned Vision along with the plan of NEC & its organizations. State Chief Secretaries from all over NER made their presentation on 'Priorities & Success Stories' of their respective states and deliberated upon important themes such as 'Regional Planning for-Telecom, Broadband & Internet Connectivity, Primary Sector Development and Tourism'. The post-tea part of the event included sessions on Off Farm Livelihoods, Community Capacity & Services, Village Level Planning and Saturation and Comprehensive Overview of Financing the development in the Region. The day one Session was wrapped up after taking note of key takeaways and feedback by the government representatives. This was followed by a Cultural Program and Dinner.

Addressing senior officials from all the eight North Eastern States and central ministries, Minister G Kishan Reddy highlighted that efforts are underway in the visionary leadership of Prime Minister Narendra Modi, who is working relentlessly to bring peace & prosperity in the North Eastern Region. He underlined that North East India has entered its 'Amrit Samay' and all of the stakeholders, be it Centre or State need to take complete advantage of this and awaken all possibilities of growth and development within the region. Secretary, MDoNER, Lok Ranjan welcomed all the dignitaries to the Plenary Session and made his presentation on 'Vision and Strategy for NER as Growth Engine of our Country' highlighting the recent reforms undertaken and the focus sector for sustainable and accelerated development of the region.



Meditate to make God your best friend forever

At some point, we are bound to question whether we are leading our lives in the manner in which they should be led. As we grow and transition through the various phases of life, we invest much time and effort to nurture relationships around us, to maintain our connection as social beings. Yet, somewhere along the way, these relationships come to an end, through misunderstandings, or separation by distance or death, leaving a void in our lives. Such experiences impel us to seek a relationship that is permanent and everlasting so that we are not alone in this world.

All relationships of this world will come to pass one day. The only relationship that outlasts even our time on earth is our relationship with God, the Creator. So, how do we develop our relationship with God? We need to first remember who we are. In reality, we are souls, a part of the Divine, separated from Him eons ago. Entangled in the wheel of birth and death, our souls have been yearning to return to the Source. This human birth was given to us so that we can find our way back to God. And to do so, we need to embrace the path of oneness and love.

First, let's create a solid foundation for our lives, based on the ethical virtues of truthfulness, humility, compassion, non-violence and selfless service. All goodness is born out of love, and when we love, then peace, harmony and joy automatically follow. The truest of all love resides within us. It is the love of the Divine who brought all

creation into being. The Supreme loves us tremendously, yet we do not experience this love because our attention is focussed on the attractions and distractions of the outer world. When, through the process of meditation, we withdraw our attention from the world and focus it within, we experience the bliss and joy of God's love. As we become imbued in this divine, transformative love, we become love ourselves. The Divine's love also makes us godly, and we inculcate ethical virtues in our lives.

Second, we need to take steps to experience God's love and Light in our lives, and this happens as we withdraw our attention from the outer world and focus it on the inner spiritual worlds where He resides. As we connect with the Shabd, the Light and Sound of God reverberating through all of creation, we experience the joy, bliss and love of the inner worlds. Gradually, we progress on the inner journey until our soul merges back in its Source, reuniting with the Divine.

Once we have experienced this love, we become aware of the divine presence in our lives. Fear and anxiety vanish, and we no longer feel alone. Living in God's Sweet Will, we begin to lead our lives lovingly and calmly, always in the company of our Friend. God has not forsaken us. It is we who have forgotten God, and it is up to us to take steps to remember Him. This happens as we take the time to sit in meditation daily.

-Sant Rajinder Singh Ji Maharaj

5G in India- New Digital Universe

■ ANUPUM SHRIKANDIA

Prime Minister Narendra Modi inaugurated the sixth edition of the India Mobile Congress (IMC) with the theme of 'New digital Universe'. It will bring together leading thinkers, entrepreneurs, innovators, and government officials to discuss and showcase unique opportunities emerging from the rapid adoption and spread of digital technology. In first phase, prominent cities like Delhi, Mumbai, Chennai, Kolkata and Hyderabad etc are likely to experience 5G services first. Telecom minister Ashwini Vaishnaw has claimed that as government will expand the rollout of the network and people will not be charged premium for 5G services

Key Points about 5G Technology:

► 5G is 5th generation mobile network. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks.

► It enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

► Internet speeds in the high-band spectrum of 5G has been tested to be as high as 20 Gbps (gigabits per second), while, in most cases, the maximum internet data speed in 4G has been recorded at 1 Gbps.

Evolution from first generation to fifth generation

► 1G was launched in 1980s and worked on analog radio signals and supported only voice calls.

► 2G was launched in the 1990s which uses digital radio signals and supports both voice

and data transmission with a bandwidth of 64 Kbps.

► 3G was launched in the 2000s with a speed of 1 Mbps to 2 Mbps and it has the ability to transmit telephone signals including digitised voice, video calls and conferencing.

► 4G was launched in 2009 with a peak speed of 100 Mbps to 1 Gbps and it also enables 3D virtual reality.

Different Bands of 5G: 5G mainly works in 3 bands, namely low, mid and high frequency spectrum - all of which have their own uses as well as limitations.

► Low Band Spectrum: In terms of coverage and speed of Internet and data exchange, the maximum speed is limited to 100 Mbps (Megabits per second). This means that telecom companies can use and install it for commercial cell-phone users who may not have specific demands for very high speed Internet. However, the low band spectrum may not be optimal for specialised needs of the industry.

► Mid Band Spectrum: It offers higher speeds compared to the low band, but has limitations in terms of coverage area and penetration of signals. This band may be used by industries and specialised factory units for building captive networks that can be moulded into the needs of that particular industry.

High Band Spectrum: It offers the highest speed of all the three bands, but has extremely limited coverage and signal penetration strength. This band greatly enhances futuristic 5G technology applications like Internet of Things (IoT) and smart technology but will require considerable infrastructure.

Uses of 5G: Broadly speaking, 5G is used across three main types of connected services, including enhanced mobile broadband, mission-critical communications, and the massive IoT.

► Enhanced Mobile Broadband: In addition to making our smartphones better, 5G mobile technology can usher in new immersive experiences such as Virtual reality (VR) and Augmented Reality (AR) with faster, more uniform data rates, lower latency, and lower cost-per-bit.

► Mission-Critical Communications: 5G can enable new services that can transform industries with ultra-reliable, available, low-latency links like remote control of critical infrastructure, vehicles, and medical procedures.

► Massive Internet of Things : 5G is meant to seamlessly connect a massive number of embedded sensors in virtually everything through the ability to scale down in data rates, power, and mobility-providing extremely lean and low-cost connectivity solutions.

Combined with IoT, cloud, big data, Artificial Intelligence, and edge computing, 5G could be a critical enabler of the fourth industrial revolution. India's National Digital Communications Policy 2018 highlights the importance of 5G when it states that the convergence of a cluster of revolutionary technologies including 5G, the cloud, Internet of Things (IoT) and data analytics, along with a growing start-up community, promise to accelerate and deepen its digital engagement, opening up a new horizon of opportunities.

Challenges for 5G roll-out in India:

► Low Fiberization Footprint: There is a need to upgrade fiber connectivity across India, which at present connects only 30 per cent of India's telecom towers. For an efficient 5G India launch and adoption, this number has to double.

► 'Make in India' Hardware Challenge: The ban on certain foreign telecom OEMs (original equipment manufacturer) upon which most of the 5G technology development depends, presents a hurdle in itself.

► High Spectrum Pricing: India's 5G spectrum pricing is several times costlier than the global average. This will be of detriment to India's cash-strapped telcos.

► Choosing the Optimal 5G Technology Standard: The tussle between the homegrown 5G standard and the global 3GPP standard needs to be concluded in order to hasten 5G technology implementation. While 5G brings obvious benefits, it also increases 5G India launch costs and interoperability issues for telcos.

Boosting Domestic 5G Production: The country needs to encourage and boost its local 5G hardware manufacturing at an unprecedented rate if it needs to realise the 5G India dream. Rationalization of this spectrum pricing is needed so that the government generates adequate revenue from the auction without hampering implementation plans for 5G in India.

Bridging the Rural-Urban Gap: 5G can be deployed at different band spectrums and at the low band spectrum; the range is much longer which is helpful for the rural areas.

Communal disharmony unfortunate in India

■ OMKAR DATTATRY

India is the largest secular democracy of the world, where people of different religions live and grow together. Coexistence is the basic principle of India and the people belonging to various faiths live and coexist together. The shining feature and doctrine of unity in diversity is the practical principle which is the guiding principle the people of India. There is great and urgent need to protect the secularism, pluralism, unity in diversity, tolerance and last but not the least the coexistence principle and its practice on the ground. Tolerance which is in the blood and flesh of the majority community needs to be guarded against its erosion and all of us should protect tolerance which distinguishes India from rest of the world. But alas lately the country is slipping from these cherished principles and there is intolerance and conditions of communal strife in the country which is very unfortunate? What is happening across the country is unfortunate and there is great need to arrest the growing trend of communalism in the country if we have to march on the path of all round development and this development is possible only if we remain united because united we stand divided we fall is not only a theoretical postulate but a practical principle as well and there is need for unity among different sects and communities but what is happening in the country is the antithesis of secularism and pluralism. What is going on in different states of the country in the name of religion is shameful and unacceptable as it has no place in our secular democracy. The brutal and barbaric killings are taking place in different parts of the country brings shivers down our spine and we hang our heads in shame on these unfortunate happenings. Some radical elements are busy in heinous crime of beheading innocent people and have given a savage and inhuman slogan of 'Sar Tan Se Juda' which reminds us of the barbaric days of orthodoxy and conservatism of the ancient past. It is very sad that we seem to be moving towards dark-age from the days of scientific development and great civilization. All these negative developments bring bad name and disrepute to India among the world nations. It is very sad that on very flimsy grounds the people of the majority community are being killed brutally by the radical elements of the Muslim community ostensibly for posting their views on the social platform in support of the suspended spokesperson Nupur Sharma.It is against the law of the country that the radicalized youth of the Muslim community have taken law into their hands and are pronouncing verdicts of

punishment and in fact are beheading people of the Hindu community with sadistic pleasure. It is a very sad commentary on the plight of the majority community that its members are targeted and killed in most inhuman manner which has no parallels in the history. The radicalized youth of the Muslim community should not be allowed to take law into their hands and no one can be given punishment by the fanatics and fringe elements simply on the allegations of uploading posts in social media in support of Nupur Sharma. There is constitution and law which can dispense justice in all cases including unfortunate disrespecting if any of the Prophet Muhammad and so the law should be allowed to dispense justice in all matters. But what is happening in the country in the name of religion is very alarming as the radicalized and indoctrinated youth of the Muslim community are taking law into their hands and are committing heinous crime of beheading innocent Hindus simply because of their posts on the social media purportedly favoring Nupur Sharma. India is governed by the constitution and law and Sharia law has no place in the country which is inhabited by people of different communities and so it is only the supreme document that is the constitution which governs India. The radical and indoctrinated youth of the Muslim community should know that Sharia law is not applicable in India and thus they should desist from committing heinous crimes against the people of the majority community. The radicals try to provoke the majority community so that communal disturbances will take place in the country. But the majority community deserves kudos and appreciation for not falling prey to the machinations of the fringe elements of the Muslim community. Thus the Hindu community has shown tolerance and restraint and has not retaliated. This restraint and tolerance of the majority community should not be mistaken as their weakness. The people of the country in general and the minority community in particular should know that the patience of the Hindu community is waning and this will lead to retaliation of those who commit heinous crimes against the innocent people. Thus the tolerance is the first casualty and it is decreasing day by day because of the attitude of the minority community via its radicals. This lack of tolerance is reflected in the syndrome of tolerance versus intolerance and the country is invaded by the cult of in tolerance which is dangerous for the communal amity of the country. It is very alarming and disturbing that the country is heading towards somewhat civil war condi-

tions where there is clash between the tolerant majority and intolerant minority and this situation is very alarming and dangerous for the stability and communal harmony of the country. It seems that we are heading towards communalism and communal strife which is the very negation of our principle of Sarva Dharma Sambava and so we should protect and guard our tolerance and communal harmony so that India will have a place of pride in the globe. However what is going on in the country is very unfortunate that people belonging to majority community are being killed brutally by the radicalized youth of the minority community without any remorse and it points to the savageness of the radical elements who are hell bent to destroy the communal harmony. It follows that the country is heading towards communal disharmony and uncertainty which is against the secular tenets of the land. The minority community youth should not take law into their hands and d should desist to dispense somewhat Sharia like justice to those who upload posts in the social media favouring Nupur Sharma.There is no place for Sharia laws in our secular democracy which is governed by the constitution and the law. Mohammad Arif Khan, Governor of Kerala has rightly said that the people should not lookout for Sharia law in the country which is not governed by Sharia but instead they should look towards the Islamic countries where the Sharia law is in force. Therefore all of us should guard and protect the secularism ,pluralism and tolerance which unfortunately is waning due to the thinking, approach and actions of the radicalized elements. There is great need to preserve the secular and plural character of the constitution so that the tree of secularism will flourish and give shade to people belonging to different faiths. But what is witnessed in the length and breadth of the country is very alarming as it is revolt with the secularism and tolerance which is dear to all of us. There is very grim communal harmony and communal disharmony is on the rise exponentially which is a cause of concern to all the right thinking people. India is unfortunately heading towards chaos and confusion and communalism which are the negation of our principles of secularism and tolerance and we should fight to uphold mutual harmony and brotherhood if we have to march on the path of development and progress. In brief it can be said with certainty that the country is heading towards communalism and intolerance thanks to the attitude of the minority community. But all of us are duty bound to protect secularism, mutual coexistence and communal harmony at any cost.

Pahari tribe's unity & changed political scenario

■ SUNAINA MALIK

The historic rally addressed by Home Minister Amit Shah in Rajouri town under the foot hills of Himalayan mountains on October 4, 2022 has changed political scenario of Jammu & Kashmir and confirmed BJP's popularity even up to the highest peaks of Peer Panjal ranges besides establishing Pahari tribe's unity for generations to come. Huge gathering of approximately one lakh and more Pahari people in the rally has established the fact that there is also one more ethnic group, a disadvantage tribe- Pahari which resides in the rugged mountains and lead a life full of pain, starvation, poverty, backwardness,

illiteracy and unending misery. Amit Shah has made an historic announcement for ST reservation and gifted Pahari tribe with their share under ST quota after the completion official formalities as per suggestions made in G D Sharma Commission report.

As a matter of fact, Pahari tribe has been fighting for its rights since five decades but it, for the first time came into limelight, when a delegation led by BJP senior leader Vibodh Gupta met Union Home Minister in 2019 at Delhi and briefed the minister about true socio-economic condition of Pahari people. After this, another delegation comprising senior BJP leaders like Vibodh Gupta,

Iqbal Malik, Mushtaq Bukhari etc called on Amit Shah on August 5, 2022 and further discussed issues of Pahari community with the Home Minister. The delegation also put forward reports of innumerable commissions in their favour and pleaded for fulfillment of their long pending demand. In addition to this, Pahari leaders from time to time keep on highlighting this just cause of Pahari tribe through different platforms, with former MLC Vibodh Gupta most prominent among those, who time and again highlighted the issue of Pahari tribe in Upper House and worked hard in imparting momentum to the Pahari movement. At last, the day came and the promise which

Amit Shah made with Pahari delegations on different occasions got fulfilled, with his announcement regarding grant of ST status to Pahari tribe. Pahari tribe's tsunami on the 'Land of Kings' (Rajouri) has started a discussion in political corridors of Jammu & Kashmir regarding political victory of BJP in the forth coming assembly elections. This historic announcement of ST status would move all Pahari voters in favour of BJP and Pahari unity will act as a game-changer for BJP. Story of Pahari tribe's victory confirms a fact that BJP is the only party which can fulfill dreams, aspirations and demands of each and every Indian, without any discrimination.

YOUR COLUMN

Importance of Discrete Mathematics

Dear Editor,

Through the columns of your esteemed daily, I would like to highlight importance of Discrete Mathematics, especially for students. Discrete Mathematics has many applications in daily-life and students should be introduced to its concepts early. Any task that is repeated without manual intervention through machines or robots inherently relies on the application of Discrete Mathematics. Discrete Mathematics is a subject that has gained prominence in recent times. Unlike regular Mathematics, where we deal with real numbers that vary continuously, Discrete Mathematics deals with logic that does not vary continuously or is discrete or separate distinguishable entities. Some functionalities in Discrete Mathematics include algorithms, set theory, graphs, statements in logic, recursion and probability, and so on. Its importance lies in the fact that most key mathematical competitions such as American Mathematics Competition (AMC) or American Invitational Mathematics Examination (AIME) are based on Discrete Mathematics. On the other hand, not many would know that it plays a significant role in Computer Science and is often called

the Backbone of Computer Science. Those who major in Computer Science in universities and colleges rely on it heavily.

Discrete Mathematics is, in fact, the math of computing. Computers work on algorithms of bytes 0 and 1. Knowledge of Discrete Mathematics is a prerequisite for algorithms, probabilities, logic, graph theory, set theory, and so on. Graph theory is used in compilers, operating systems, and networks while Set theory is used in software engineering and databases. On the other hand, probability theory is used in machine learning, networking, and artificial intelligence. In effect, Discrete Mathematics makes all aspects of Maths easy.

The goal of Computer Science is problem-solving with speedy solutions and Discrete Mathematics helps us solve real-world problems and daily projects and is comparatively easy to understand. Some of the basic use cases include identifying spam messages, choosing a valid password, steps needed to sort a list using a given method, and recognizing the efficiency of one algorithm from the other are all now possible. All the advanced programming languages or emerging technologies leverage basic programming by calibrating the application of bytes. As there is increased use of automation now, any task that is repeated without manual intervention through machines or robots inherently relies on the application of Discrete

Mathematics. The concept is used in creating automation and is popularly called Artificial Intelligence or Machine Learning these days. Discrete Mathematics plays a significant role in big data analytics. Some examples that use concepts such as Graph theory are Google Maps. Encryption and decryption in cryptography that are used for masking data as part of cyber-security are derived from number theory. Basic functionalities like password encryption and block-chain technology for mining and crypto currency also use number theory.

In Big Data, Discrete Mathematics also serves as a powerful means of managing very high-dimensional data or drawing inferences from large noisy data. It helps turn massive data into meaningful data and algorithms that can be used to scale up computations of humongous sizes. Thus, Discrete Mathematics provides an exciting means for problem-solving in a highly technology-reliant society and also opens up exciting careers for better sophisticated analytical and technical tools and improving problem-solving abilities. It is time that Discrete Mathematics is included in school curricula starting from class 6th onwards with a focus on graph theory, number theory, discrete geometry, and discrete probability. These modules will also help students who are not particularly strong in arithmetic or algebra to understand the concepts more easily.

Vijay.