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# EDITORIAL

## The Andaman Express

26 November 2021

### Attention-deficient times?

How would we listen to The Dark Side of the Moon or Sgt Pepper's Lonely Hearts Club Band had these albums been released today? Much like how video was believed to have killed the radio star when the MTV era began in 1980s, the age of music streaming is said to have killed off the very idea of the album that takes the listener on a thematic, sonic or narrative journey. If this sounds too esoteric an issue to be bothered about, consider a recent Twitter exchange on the subject of the shuffle feature and what it says about our attention-deficient times.

British singer-songwriter Adele, who recently released her fourth studio album 30, responded to news about Spotify removing the shuffle button as the default option on albums, by thanking the music streaming giant for "listening". She tweeted: "We don't create albums with so much care and thought into our track listing for no reason. Our art tells a story and our stories should be listened to as we intended." Whether or not Spotify made this move at Adele's explicit request — the company responded to her tweet with, "only for you" — is besides the point. What this exchange highlights is that, despite having every kind of music, from all over the world, at our literal fingertips, we've forgotten how to really listen to — and engage with — music. What we do instead is skip from song to song, seeking the dopamine hit that comes with every fresh track. The fact that Spotify counts 30 seconds of playtime of every song as a single stream is itself a damning indicator of our flighty listening habits.

Requiem for the music album — one of the 20th century's greatest art concepts — had begun to be written back in the early aughts when the iPod, with a shuffle feature that prioritised singles over albums, upended the industry. With Adele's pushback and Spotify's acquiescence, here's hoping that those requiems would not need to be played anytime soon.

### Constitution Day..

expedited to participate in the mass Preamble reading tomorrow. The Preamble is the introductory statement in the Constitution which states the guiding values of the Constitution. Preamble declares India to be a sovereign, socialist, secular and democratic republic. The People of India are revealed to be the source of the authority of the

from... Page 01 Indian Constitution.

The objectives stated by the Preamble are to secure justice, liberty, equality to all citizens and promote fraternity to maintain unity and integrity of the nation. It was adopted on 26th November 1949 by the Constituent Assembly of India and came into effect on 26th January 1950.

### Awareness prog. on..

Mrs Prabhawati Biswas, former Zilla Parishad Adhyaksha was the chief guest on the occasion. Shri B. Devraj, Vice of Compassion, NGO Rangavat was guest of honour. Mahila Mandal Members, Youth club members, SHGs Members, Anganwadi workers, & ANM were participate in the programme.

The chief guest appealed all the participants to participate all the Govt Scheme programme as well as Jai Shakti Abhiyan, Covid 19 Programme and other programme organized by the Administration/ NYKNGOs etc. Shri B. Devraj, chairman, Vice of compassion take

from... Page 01 the topic of Jai Shakti abhiyan while Mrs Poonam Roy Panchayat Secretary Rangakata take the topic of Swachh Bharat Mission

Smt V. Leena, ITC Counsellor, CHC Rangakata welcomed the gathering. An Orientation programme in connection with World AIDS days 2021 with the theme End Inequalities, End AIDS, End Pandemics with the collaboration with NYK Rangakata National Rural Livelihood Mission. Shri Jag Jeevan Ram Deputy Director, NYK Rangakata briefed about the importance of Jai Shakti Abhiyan and COVID 19 Awareness programme.

## IAF receives two Mirage 2000 fighters from France to boost combat aircraft fleet

The Indian Air Force has received a boost to its fighter jet fleet as two second-hand Mirage-2000 fighter aircraft have arrived from France at its Gwalior airbase. The two aircraft were acquired by the Indian Air Force as part of the programme to make up the number of aircraft in the Mirage fighter fleet to around 50.

AIR correspondent quoting official sources reports, the Mirage upgrade deal between the French and Indian sides was for enhancing the capabilities of 51 aircraft and some of these kits are left due to crashes involving these planes. The same kits can be put on these two French Air Force planes and make them suitable for combat operations.

Sources say, the Indian Air Force has invested very smartly in finding the spares for the Mirages in form of phased out French aircraft and this is going to help the Air Force maintain them till 2035.



The Mirages have been in service from the 1980s and have been the mainstay of the force from the Kargil war to the 2019 Balakot airstrikes where they bombed a Jaish-e-Mohammed terrorist camp in Pakistan.

The Mirages also successfully took out Pakistan Army camps and bunkers on the Tiger Hilltop in the Kargil war and changed the face of the war by successfully hitting enemy camps at such high altitudes with pinpoint precision using laser-guided bombs.

## INS VELA, FOURTH SCORPENE - CLASS SUBMARINE, INDUCTED

"Once dived, she is truly poised for the kill with very impressive stealth and strength". This is what the Navy boasts about its latest submarine INS Vela, inducted in the fleet on Thursday.

INS Vela is the fourth of the Scorpene class built by Mumbai-based Mazagon Dock Shipbuilders Limited (MDL) in collaboration with the M/s Naval Group of France.

On the occasion, Navy chief Admiral Karambir Singh recalled that the induction of the Foxtrot's in 1967 heralded the birth of the Indian Navy's

submarine arm. "The quantum leap in Indian Navy's operational capabilities was evident in the 1971 Indo-Pak war where IN submarines played a crucial role. In similar vein, submarines of the Project 75 claim to transform the war-fighting abilities in the underwater domain in the years to come," Admiral Karambir said.

The old Vela was a Foxtrot class submarine acquired from the erstwhile Soviet Union in 1973 and she served the nation for 37 glorious years.

Admiral Karambir further

said that the submarine building involves high levels of sophistication, with requirement of high degree of precision. "The platform in front of us today showcases India's notable strides in indigenous submarine construction, as also the journey from being a 'Buyer's Navy to a Builder's Navy'," he said.

The Scorpene is a 2000 tons conventional-propulsion submarine for all types of mission, such as surface vessel warfare, anti-submarine warfare, long-range strikes,

special operations and intelligence gathering. Extremely stealthy and fast, it has a level of operating automation that allows a limited number of crew, which reduces its operating costs significantly. Its combat edge is highlighted by the fact that it has six weapon launching tubes and 18 weapons (torpedoes, missiles, mines).

"These submarines have a state of the art SONAR and sensor suite permitting outstanding operational capabilities. They also have an advanced Permanent Magnetic Synchronous (PERMASYN) motor as its propulsion motor," a navy official said.

INS Vela is fitted with advanced weapons and sensors. All of these are integrated into the Submarine Tactical Integrated Combat System, also known as SUBTICS. Once a target is classified, the submarine may choose to engage it using either her sea-skimming missiles also known as Flying Fish or heavy

weight wire-guided torpedoes.

Despite having a coastline of 7,516 km, India's underwater capability is nowhere close to its needs. Ideally, the Indian Navy needs at least 24 submarines to meet its 30-year submarine-building plan, which was approved by the cabinet committee on security in 1999, months after the Kargil conflict.

It is notable that while China operates 65 submarines, the Indian Navy's fleet of attack submarines, all diesel-powered, has come down from 21 in the 1980s to just 17 at present. At least half of the available submarines are old and creaking, and undergoing mid-life upgrade. The plan was to induct 12 diesel submarines by 2012 and another 12 submarines by 2030, but repeated delays forced the Navy to re-jig the plan. A few months back, the Ministry of Defence had issued the much awaited Request of Proposal (RFP) for the Rs 43,000 crore project to domestically construct six new-generation stealth submarines with foreign collaboration.

### NEET-PG counseling..

decides on the criteria for determining EWS category. Mehta told the apex court. The Supreme Court told Centre its EWS quota is very enabling and progressive kind of reservation and States must support Centre in its endeavour.

The bench said that the only question is that determination of the category should be in a scientific manner and it appreciates that the Centre has taken decision to revise the criteria earlier fixed.

Senior advocate Arvind Datar, appearing for petitioners (students), said since a lot of time has passed and Centre should push back implementation of the EWS quota for the next academic year and the current year counseling should be allowed to go on.

The bench agreed with the submission of Datar and asked Mehta whether it could push the implementation of the constitutional amendment for the next academic year and allow the counselling to go on for the current academic year.

Mehta said that the government has taken a decision to implement the 103rd constitutional amendment from the current academic year and pushing back would not be appropriate. He said that the determination is done earlier than four weeks then it will inform the court. The top court was hearing a batch of pleas challenging the Centre and Medical Counselling Committee (MCC) July 29 notice providing 10% for EWS category in the NEET admissions.

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The July 29 notice provide 27% reservation for OBC and 10% for the EWS category in 15% UG and 50% PG All India Quota seats (MBBS/BDS and MD/MS/ MDS) w/ effect from the current academic session 2021-22.

Earlier, in an affidavit filed by the Ministry of Social Justice and Empowerment before the apex court, it justified the decision to set the limit of '8 lakh annual income fixed for determining the EWS category. The ministry said the principle of fixing the amount is rational and in keeping with Articles 14, 15 and 16 of the Constitution.

On October 21, the top court had asked the Centre whether it would like to revise the limit of eight lakh annual income, fixed for determining the EWS category. The top court had clarified that it is not embarking into the policy domain but is only trying to ascertain whether constitutional principles have adhered or not.

The apex court had earlier asked the Centre to put on hold the counselling for NEET PG until it decides the validity of the Centre's decision to introduce OBC and EWS reservation in All India Quota (AIQ). The Centre government also assured the top court that the counselling process will not commence till the Bench decides the matter. The NEET Postgraduate was held at 679 centres in 270 cities of the country with 1.6 lakh candidates appearing for it following Covid-19 protocols

### Fire Hydrants: Fighters..

on the importance of such systems. They are informed about fire hazards and safety precautions that are to be undertaken by the occupants or inhabitants during a fire incident as per reports. "One of the methods for extinguishing fire in towns, cities and industrial buildings is by providing external hydrant systems. Fire hydrant systems consist of suitable capacity reservoirs, arrangements to impart pressure to the water, means to convey the water to various locations and suitable water outlets at the required locations. To ensure system functions efficiently, its imperative to carry out routine inspections and ensure timely maintenance of the system," said a fire fighter, who didn't wish to be named. "High-rises in the city, narrow roads, ever-increasing population, traffic jams, and illegal constructions and encroachments have affected the response time of the fire brigade. In such a scenario, Fire Hydrants can play a crucial role in preventing major mishaps. However, functionality of such systems is hindered due to various reasons including encroachments, valves being stolen or submerged by roads, parking of vehicles etc. In recent years, the requirements for fire safety cover have increased manifold and to

### from... Page 01

ensure life and property in urban and rural areas, fire services need to be organized properly with adequate infrastructure and equipment for keeping pace with advancement of technology. It is in this line that such exercises are carried out to boost the operational capability of the force. However, securing such installations is necessary so as to enable fire fighters have a barrier-free access to the facilities at times of emergency," added the fire fighter.

Fire Hydrant is an installation that can be used by fire fighters as per their requirement during an operation. The system is connected to a reservoir or dedicated fire fighting operations. As water tenders and boosters have limited capacity, having a Fire Hydrant located close to an accident site ensures uninterrupted supply of water to douse the blaze.

The Fire Services Departments have Fire Hydrant systems located at crucial areas in the city like busy marketplaces, government offices, commercial complexes, near schools etc. While there are many such installations in the city, many others are in the pipeline. The efficacy of such systems was also demonstrated during the visit of the Prime Minister of India to these islands.

### Constitution Day..

Divas. It is celebrated in our country on 26th November every year to commemorate the adoption of the Constitution of India. On 26th November 1949, the Constituent Assembly of India adopted the

### from... Page 01

Constitution of India, which came into effect from 26th January 1950. Students by holding placards & raising slogans on Indian Constitution enthusiastically participated in the rally.

## Scientist warns of a new Covid variant with high number of mutations

New Delhi, 25th Nov, 2021: A new variant of Covid-19 with over 30 spike mutations has been reported from southern Africa. On November 23, Dr Tom Peacock, a virologist at Imperial College London, posted the details of the variant on GitHub.com, noting that the "incredibly high amount of spike mutations suggest this could be of real concern".

Assigned as B.1.1.529, the variant was first spotted in Botswana and the other circulating countries are Hong Kong and South Africa. According to The local media, only 10 cases have been confirmed by genomic sequencing.

Dr Tom Peacock tweeted that the variant should be monitored due to its "horrific spike profile".

According to WHO, currently, only four variants of the coronavirus are designated as variants of concern — Alpha (lineage B.1.1.7, the so-called UK variant), Beta (lineage B.1.351, the so-called "South Africa variant"), Gamma (lineage P.1, the so-called "Brazil variant") and Delta (lineage B.1.617.2).

"Worth emphasising this is at super low numbers right now in a region of Africa that is fairly well sampled, however, it very much should be monitored due to that horrific spike profile (would take

a guess that this would be worse antigenically than nearly anything else about," Dr. Peacock said.

The mutation P681H seen in the new variant has also been reported in Alpha, Mu, some Gamma, and B.1.1.318 variants. The new variant also carries the N679K mutation which has been reported in many other variants. Dr. Peacock tweets: "This is the first time I've seen two of these mutations in a single variant".

The new variant also carries a mutation called N501Y which has been reported in other variants of concern. Studies have shown that this mutation helps the variant more transmissible. It also allows the virus to readily bind to the human angiotensin-converting enzyme 2 (ACE2) receptors.

It also carries the P681H mutation, one of the commonly identified spike mutations in SARS CoV-2, which enhances the transmissibility of the virus. The D614G mutation which has been reported to increase virus infectivity was also seen in the new variant.

Dr. Divya Tej Soudi from CSIR-Centre for Cellular and Molecular Biology said that only very few genomic sequences of the new variant are available and more studies are needed. "The variants currently being monitored," he says.

## Exercise may reduce brain inflammation in Alzheimer's disease

Physical activity is very important for a number of reasons including that it helps to protect the structure and function of our brain as we age. This may be key in reducing the risk of developing certain neurodegenerative conditions, such as Alzheimer's disease.

Though researchers have known about the protective effect of exercise for many years, exactly why it has this effect on the brain has remained a mystery. But a recent study published in the Journal of Neuroscience might shed some light on this puzzle.

According to its findings, physical activity alters the activity of the brain's immune cells, which low level inflammation in the brain. The brain contains a class of special immune cells known as microglia, which constantly survey the brain tissue for damage or infection, and clear away debris or dying cells.

Microglia also help direct the production of new neurons (nerve cells in the brain) which communicate and send messages to other cells via a process called neurogenesis, which is linked with learning and memory.

But in order for microglia to step up and do their job, they need to switch from a resting state to an activated state. Signals from pathogens (such as viruses) or from damaged cells will activate the microglia. This changes their shape and causes them to produce pro-inflammatory molecules allowing them to resolve and repair damage or infection.

However, microglia can also be inappropriately activated as we age, causing chronic brain inflammation and impairing neurogenesis. This inflammation has been suggested as a reason why brain function often declines with age, and these changes can be even worse in the case of neurodegenerative conditions such as Alzheimer's.

Studies in laboratory mice and rats have shown that exercise can counteract some of the damaging effects of microglial activation. But this latest study has revealed for the first time a link between physical activity, reduced microglial activation and better cognitive function in the human brain.

The study's researchers looked at 167 men and women who

participated in the Rush Memory and Aging Project. This is a long-term project at Rush University in Chicago which seeks to identify factors that contribute to brain health in older people. Participants completed annual assessments of their physical activity, which was monitored by a wearable activity tracker, alongside assessments of their cognitive function and motor performance (such as muscle strength and walking speed).

Participants also donated their brains for post-mortem analysis as part of the study. This allowed the researchers to analyse the brain tissue for evidence of activated microglia and for signs of disease in the brains such as unhealthy blood vessels, or the presence of plaques containing the protein beta-amyloid (a hallmark of Alzheimer's disease).

The researchers also looked at the levels of synaptic proteins in participants' brains. Synapses are the tiny junctions between nerve cells where information is transmitted, so the levels of these give a broad indication of healthy brain function.

On average, the participants were 86 years old when their

physical activity began to be monitored and around 90 years old when they died. About a third of the participants had no cognitive impairment, a third had mild cognitive impairment and a third had been diagnosed with dementia.

But post-mortem analysis is revealed that around 60 per cent of participants actually had signs of Alzheimer's disease in the brain (such as amyloid plaques). This shows that the presence of physical signs of Alzheimer's disease doesn't necessarily mean a person will show major symptoms of cognitive impairment while they're alive.

Unsurprisingly, the younger the participants, the more physically active they were and the better their motor function. Overall, being more physically active was associated with lower microglial activation in certain brain regions (such as the inferior temporal gyrus, which is involved in memory and recall) which are typically affected early on when Alzheimer's begins developing.

Not only do these findings indicate that inflammation in the brain can significantly affect cognitive function, and may be a risk factor



developing Alzheimer's disease, they also show that physical activity may help us to develop resilience in the brain to effects that would otherwise be damaging.

The study was also only observational, meaning it observed changes in participants going about their lives as opposed to an interventional study in which different people would be randomly assigned to two different groups where some exercised and some did not. We therefore cannot conclude that certainly physical activity directly caused the observed

changes in brain tissue and cognitive function. These findings also don't explain the mechanism by which exercise induces these effects.

But this study still adds weight to the growing body of evidence that physical activity can protect brain health and function even into old age. Being active throughout our lives is likely to give us the best chance of preventing Alzheimer's and other neurodegenerative conditions from developing, helping us to live long, healthy and independent lives.



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### SAVE WATER



### SAVE EARTH

## Indian Air Force Recruitment 2021, 83 Group C Civilian vacancies, Apply @ indianairforce.nic.in

Indian Air Force Recruitment 2021 | MTS, Cook, LDC & Other Posts | 83 Vacancies | Last Date: Within 30 days | Download IAF Bharti Application Form @ indianairforce.nic.in | Indian Air Force Recruitment 2021: Indian Air Force (IAF) invites application from eligible Indian nationals to fill up 83 vacancies in Group C Civilian posts. These vacancies are allocated for the post of Supt (Store), Lower Division Clerk (LDC), Cook, Carpenter, Civilian Mechanical Transport Driver, Fireman & Multi-Tasking Staff posts in Various Air Force Stations/ Units. Candidates who had passed class 10th/ Class 12th are eligible to apply for Indian Air Force jobs. Aspirants need to submit the application within 30 days from the date of employment news.

Candidates may download the IAF recruitment 2021 notification and application form from www.indianairforce.nic.in. Selection of candidate will be based on written test/ skill test/ practical test/ physical test. Medium of exam should be English & Hindi. Selected candidates will be placed anywhere in India. Aspirants with a valid Civil Driving License are instructed to apply for this IAF vacancy. No TA/ DA will be provided to attend the selection process. More details about Indian Air Force vacancy, admit card, syllabus, merit list, selection list, results and upcoming recruitment will be updated at official website.

Please visit www.indianairforce.nic.in to know more career opportunity at Indian Air Force. Here you will get educational qualification, age limit, selection process, apply mode and steps to apply for posts. Keep looking at www.dailyrecruitment.in to obtain latest updates.

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## Air India Recruitment 2021, Apply Manager & Other Vacancies @ www.airindia.in

Air India Recruitment 2021 | Manager & Other Posts | Total Vacancies 10 | Last Date 07.12.2021 | Download AIAHL Recruitment Notification @ www.airindia.in

Air India Recruitment 2021: AI Assets Holding Limited (AIAHL) has issued new notice on 16.11.2021 for recruitment of various posts. There are 10 vacancies will be filled by Air India. It invites offline applications from eligible candidates to fill up above said vacancies above these vacancies are assigned for Chief of Properties & Monetization Officer, Chief of Personnel & Administration, Deputy Chief Finance Officer, Manager & Officer posts. Applicants who are seeking Central govt jobs in Delhi kindly submit your application form to given address on or before 07.12.2021.

Selection procedure involves personal interview of the candidates who prima facie meets eligibility criteria. The selected candidate will have to undergo a Pre-employment medical examination. Selected candidates will be appointed at Delhi. Air India Recruitment 2021 Notification & AIAHL recruitment application form is available @ www.airindia.in. Candidates who are looking for Engineering Jobs must check their eligibility i.e. educational qualification, age limit, experience and etc. More details of www.airindia.in recruitment, AIAHL New vacancy, upcoming notices, syllabus, answer key, merit list, selection list, admit card, result, upcoming central govt jobs notifications and etc. will be uploaded on official website.

## NARL Recruitment 2021, Apply Scientist/ Engineer & JRF Vacancies @ narl.gov.in

NARL Recruitment 2021 | Scientist/ Engineer & Junior Research Fellow (JRF) Posts | Total Vacancies 14 | Last Date 29.11.2021 | Download NARL Recruitment Notification @ narl.gov.in

NARL Recruitment 2021: National Atmospheric Research Laboratory is an autonomous Research Institute funded by the Department of Space of the Government of India has recently released an advertisement (Advertisement No. NARL/RMT/SC & RF/01/2021) for recruitment of Scientist/ Engineer & Junior Research Fellow Posts. Totally 14 vacancies will be filled by NARL and post wise vacancy details are given below. It invites online application from the eligible candidates. Applicants who are looking for jobs in Central Government kindly make the online registration up to 29.11.2021.

NARL Recruitment Notification & NARL jobs apply link is available @ narl.gov.in. Candidates who are seeking Engineering Jobs must check their eligibility i.e. educational qualification, age limit, experience and etc. NARL selection will be based on interview and selected candidates will be appointed at Gadanki [AP]. Governments tries to have a workforce which reflects gender balance and women candidates are encouraged to apply. More details of narl.gov.in recruitment, NARL new vacancy, upcoming notices, syllabus, answer key, merit list, selection list, admit card, result, upcoming notifications and etc. will be uploaded on official website.

You may visit Career page to get more details about this recruitment. Here you will get information like educational qualification, age limit, application mode, fee and how to apply. Keep check www.dailyrecruitment.in regularly to get latest updates & upcoming govt exams.

## Southern Railway Recruitment 2021, Apply for Sports Quota Vacancies @ sr.indianrailways.gov.in

Southern Railway Recruitment 2021 | Sports Quota | 21 Vacancies | Last Date: 30.11.2021 | Southern Railway Job Notification @ sr.indianrailways.gov.in

Southern Railway Recruitment 2021: Southern Railway has initiated the hiring process by releasing the notification for recruitment against Sports Quota for the year 2021-22. They are announced 21 vacancies the posts from Level 2 to Level 5 in 7th CPC Pay Matrix. Applicants who are searching for Central Govt jobs may apply for this Southern Railway vacancy. Eligible & willing candidates are advised to download the application & fill the form with correct details. Capable persons need to submit the Southern Railway application form on or before 30.11.2021, 17.00 Hrs.

Class 12th job seekers can apply for this Southern Railway Sports Quota recruitment 2021. Applicants should submit the filled form along with essential documents to apply for this Railway jobs. Southern Railway recruitment 2021 notification & application form are published at www.sr.indianrailways.gov.in/ www.rcmas.in. Selection process consists of trial & interview. Candidates need to pay a fee through prescribed mode on or before the last date. More details about this Southern Railway recruitment 2021, selection list, merit list, results will be updated at official website.

Eligibility Criteria for Southern Railway Sports Quota Vacancy 2021  
Educational Qualification: Candidates should have passed Class 12th/ Graduate degree from recognized board/ university.

Check advertisement for more details.  
Age Limit (As on 01.01.2022)  
Age limit should be 18 years to 25 years.  
Refer notification for age relaxation.

To get more details about Southern Railway, visit www.sr.indianrailways.gov.in. Here we have provided the educational qualification, age limit, selection process, apply mode & steps to apply. Keep checking at www.dailyrecruitment.in for latest & upcoming notices.

## JIPMER Recruitment 2021, Apply for Assistant Professor Vacancies @ jipmer.edu.in

JIPMER Recruitment 2021 | Assistant Professor Posts | 03 Vacancies | Last Date: 02.12.2021 | JIPMER Job Notification @ jipmer.edu.in

JIPMER Recruitment 2021: Jawahar Institute of Post Graduate Medical Education & Research (JIPMER) has released recruitment notification on 03.11.2021. As per JIPMER Puducherry recruitment 2021 notification, they expect application from eligible persons for the post of Assistant Professor posts in various discipline. Central Government job seekers may use this chance to join in JIPMER jobs. The last date to submit the JIPMER application form are these 03 vacancies is 02.12.2021. JIPMER recruitment 2021 notification & application form are available at www.jipmer.edu.in.

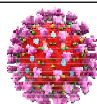
JIPMER is going to recruit candidates on contract basis. Applicants should have attained the prescribed educational qualification & age limit i.e. 1 year/ 3 years teaching & research experience in relevant field is required to apply for JIPMER recruitment 2021. Appointments will be at Puducherry. Contract period is 11 months. Aspirants need to pay a fee through prescribed mode on or before the last date. They are planned to hire candidates by conducting the interview. Information about the interview will be provided by the Institute. More details of JIPMER recruitment 2021, selection list, merit list, results & upcoming job notices will be uploaded at official website.

To get more job opportunity at JIPMER, check www.jipmer.edu.in. Here we have provided educational qualification, age limit, selection process, apply mode & steps to apply. Keep checking at www.dailyrecruitment.in for latest updates.

## STAY HOME



Fight Against Covid-19  
Corona Virus



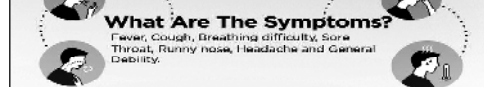
## STAY SAFE

## CORONAVIRUS MUST KNOW FACTS



A new strain of the coronavirus that infects humans and causes lower respiratory tract illnesses.

Common in people with cardiopulmonary diseases, weakened immunity, infants, and older adults.



## What Are The Preventive Measures?

- Wash hands regularly using an alcohol-based hand sanitizer or soap and water
- Cover mouth and nose with tissue paper while sneezing
- Avoid touching face, nose or mouth with dirty hands
- Wear protective mask to avoid spreading onto others
- Stay at home if sick
- Disinfecting and cleaning surfaces that you frequently touch

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## IN CONVERSATION

## WHY SELF-EATING ROCKETS, VANISHING SATELLITES ARE HERE TO STAY

Ever since ISRO Chairman K. Sivan spoke about futuristic technologies on which the agency will be working on, there has been a lot of buzz among space enthusiasts and specialists about it, especially about the self-eating rockets and vanishing satellites. Presently, rockets have metal casings that are dropped into the sea post their launch or end up becoming space debris post their final stage. ISRO has been working on a technology wherein the rockets will eat themselves. Space experts told THE WEEK that such satellites and rockets may end up being an inextricable part of future space missions.

"I think these self-eating rockets and vanishing satellite technologies are something that might sound very fancy like a Hollywood movie climax today but, over a period of time our scientists will innovate on these technologies," said Srimathy Kesan, founder and CEO, Space Kidz India. "The self-healing material that the ISRO chairman mentioned is a deep subject where research has been going on for years now and there has been significant improvements pertaining to a few polymers. NASA has been working on this since 2009, and has also been able to identify a few new composite metal polymers. In fact, I was excited to watch a video from Penn Innovation Center, Pennsylvania, as to how metals can be self-healing. However, all this will take time. I would also still vouch for reusable technology for rocket."

Experts say that both the technologies (self-eating rockets and vanishing satellites) will play a critical role in making sure that we do not add to the space debris problem. "Self-eating rockets are essentially rockets made of unique materials that burn up in the atmosphere leaving no trace. Self vanishing satellites are satellites that burn up at the end of their mission. This has been done in the recent



past with tethers, propulsion etc. We are seeing a rising number of organisations that are adhering to this, including us at Pixxel. All of our satellites will burn up at the end of their lifetime," Awaiz Ahmed, founder and CEO of Pixxel, told.

Said Grish Linganna, space expert and director of ADD Engineering Components

(India) Limited Ltd. "Today, most rockets use tanks to store their propellant as they climb, and the weight of the tanks is usually many times greater than the weight of the useful payload. This reduces the efficiency of the launch vehicle, and contributes to the problem of space debris. However, a launch vehicle powered by an autophase engine would consume its own structure during ascent, so more cargo capacity could be freed up and less debris would enter the orbit."

He said that the autophase engine consumes a propellant rod which has solid fuel on the outside and oxidiser on the inside. The solid fuel is a strong plastic, such as polyethylene, so the rod is effectively a pipe full of powdered oxidiser. By driving the rod into a hot engine, the fuel and oxidiser can be vaporised into gases that flow into the combustion chamber. This produces thrust, as well as the heat required to vaporise the next section of propellant.

"A rocket powered by an autophase engine would be different. The propellant rod itself would make up the body of the rocket, and as the vehicle climbs, the engine would work its way up, consuming the body from base to tip. This technology opens the possibility of actually sizing launch vehicles to match small satellites, thereby offering more rapid and more targeted access to space," Linganna said.

## Noida Airport will be logistics gateway of north India: Modi

Prime Minister Narendra Modi and Civil Aviation Minister Jyoti Prasad Sinha exchanged confidence on the potential of the new Noida International Airport.

Modi laid the foundation for the airport, located at Jewar, on Thursday. After the event, Modi declared the new airport would be the "logistics gateway of northern India".

Modi noted the Noida Airport would benefit "crores of people of Delhi-NCR and western Uttar Pradesh". He also declared it would give employment opportunities to thousands in western Uttar Pradesh.

"Noida International Airport will directly connect a major centre of export with international markets. It will enable farmers of this region to export perishable goods like vegetables, fruits and fish. It will help MSMEs of western UP to reach foreign markets," Modi said.

Taking aim at opposition parties, Modi said, "After 7 decades, UP is getting what it always deserved; with efforts of double-engine government UP is turning into the country's most connected region. UP, which was kept in darkness by previous governments, is now leaving its mark not only nationally but internationally too. Jewar airport is also an example of how earlier governments in UP and at Centre ignored development of western Uttar Pradesh."

Modi claimed the BJP had wanted an international airport in Noida two decades ago, but faced opposition. "20 years back, BJP government saw the dream of

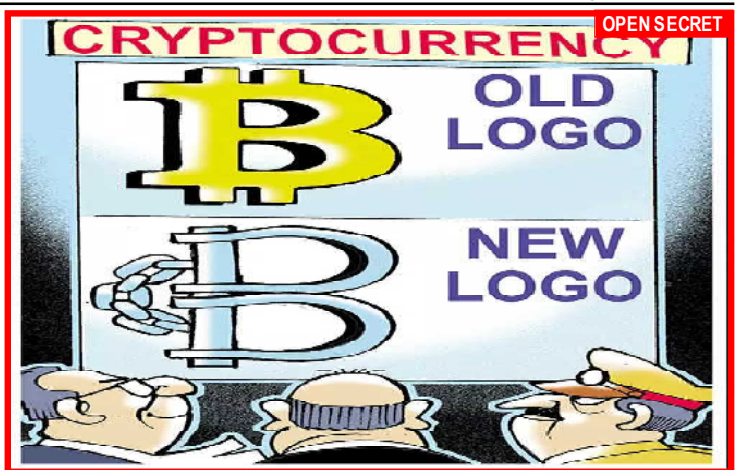


constructing an international airport here. However, it got stuck due to tussle of previous governments sitting at Lucknow and Delhi. Even the previous state government wrote letter to stop the project. But now we're witnessing its 'bhumi puja'," Modi said.

Highlighting his government's commitment to infrastructure projects, Modi said, "Infrastructure is not politics for us but part of national policy; we're ensuring projects don't get stuck and are completed in time."

Speaking before Modi, Sinha said that it was the prime minister's direction that Asia's biggest airport has to be built in Uttar Pradesh. "Where there is a will, there is a way. It was an ambitious resolution of the prime minister, which has come true today," Sinha said.

"By the last phase of development, the Noida International Airport will even surpass Delhi's Indira Gandhi International (IGI) Airport and become India's leading airport," Sinha declared.



## World championship will change Nepo as a player: Viswanathan Anand

CHENNAI: The opening game of the much-awaited Magnus Carlsen-Ian Nepomniachtchi World championship clash will kick off in Dubai on Friday. The challenger—Nepomniachtchi—will have the white pieces in the first match.

Five-time former world champion Viswanathan Anand has his money firmly on Magnus. "Going by what we know so far, Magnus is very much the favourite. He has been in good form and preparing well," Anand told THE WEEK.

Having said that, the 51-year-old believes that Nepo—the challenger—will not make it any easier for Magnus. "Nepo must be very motivated. And he has had a whole year to train and reinvent himself. We know that, on multiple occasions, he is at the (FIDE) Grand Prix where he did well to qualify for the Candidates and at the Candidates—he rose to the occasion," Anand pointed out.

Anand feels the match against Magnus

will change Nepo as a player. "I think a World championship is an experience that changes you and it will change him as a player," said Anand.

The 51-year-old legend is excited to be doing full-time commentary for the first time in a World championship match. "Whenever I have watched a World championship match—I have often thought about what it's like to commentate. It's funny to be at the other end of it now and a new feeling to be at a World championship without the tension. I will try to enjoy it as a spectator and hopefully communicate it with the audience," mentioned Anand.

The last year or so has seen Anand being mentor to young guns like Arjun Erigaisi, R Praggnanandhaa, D Gukesh, Ruanan Sadhwani among others as part of the Westbridge Anand Chess Academy. Anand is clear that being a mentor or doing commentary are not long-term decisions yet.



"I enjoy trying them because it's connected to the game. My schedule has been thrown off course for almost two years now because of the Covid-19 pandemic. These are not long-term decisions and heavily influenced by the current situation," stated Anand.

## 'Moment to cherish': Shreyas Iyer receives his India Test cap from Sunil Gavaskar

KANPUR: Iconic former captain Sunil Gavaskar on Thursday presented debutant Shreyas Iyer with India Test cap here, continuing head coach Rahul Dravid's push to revive the bygone

tradition of new entrants getting the coveted possession from the greats of Indian cricket. Iyer became the 302nd player to make his Test debut for the national team and before the loss against

New Zealand here, it was India's greatest opener and former skipper Gavaskar who was invited by Dravid to present the cap to a fellow Mumbaier.

The culture of former stalwarts presenting the national cap is very much prevalent in Australia and debutants get their 'Baggy Green' from the likes of Shane Warne, Mark Waugh, Mark Taylor or Adam Gilchrist.

In India, there was a time when ex-cricketers present were requested to do the honours, but in the past few years, it has either

been the captain or some senior player or at best a support staff presenting the cap to debutants.

Dravid, a product of the 'Old School', has brought that sense of nostalgia back as an emotional Iyer listened intently to what Gavaskar had to say about the essence of wearing the Test cap and what it means for a cricketer.

Former Australia skipper Ricky Ponting, who is the chief coach of Delhi Capitals—the IPL franchise Iyer plays for, also congratulated him on his Test debut.

"Having seen all the work you've put in over the last few years, very well deserved and only the beginning for you mate. Proud of you Shreyas Iyer 5," tweeted Ponting.



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### Coronavirus Disease (COVID-19)

**Symptoms:** Fever, many new, cough and sore throat. In some, it can be more severe leading to pneumonia or breathing difficulties. Symptoms may develop within 14 days after exposure.

**Protect yourself from getting COVID-19**

- Washing your hands frequently with soap and water or use an alcohol-based hand rub
- Avoiding touching eyes, nose and mouth with unwashed hands
- Avoiding close contact with people who have fever and coughing
- When coughing and sneezing, cover your mouth and nose with flexed elbow or tissue
- I throw tissues into closed bin immediately after use
- If you suspect you may have COVID-19, contact 102/1026/9777 (Lao and English, available 24x7)

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### 10 TIPS TO PROTECT YOURSELF AND OTHERS DO NOT RISK YOUR LIFE

1. Avoid crowded places and help protect your life. Do not go to crowded places like markets, malls, public transport, etc. if you are not feeling well.
2. Many people are returning to their work and daily life. It is important to follow the guidelines.
3. Disinfect surfaces and objects that are touched frequently with alcohol-based hand rub.
4. The COVID-19 outbreak is a stressful time for everyone, including your personal life. Stay calm and avoid panic.
5. With the outbreak, it is important to stay at home and avoid unnecessary travel.
6. Exercise at home or in a park.
7. Maintain a healthy routine. Wash your hands frequently with soap and water.
8. Avoid contact with sick people and avoid sharing food and drinks.
9. Wear your mask and gloves. Follow public health measures and guidelines.
10. Listen to your local authorities for other advice.