




03 October 2023

National and International News

Note: 1st and 2nd October National and International Current Affairs Articles or Topics will be distributed across upcoming Addapedia (03 Oct 2023 to 07 Oct 2023) files in a gradual manner.

“Happy Learning”

- Adda247 Team

<p>Medicine Nobel 2023</p>  <p>Katalin Karikó Drew Weissman "for their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19" <small>THE NOBEL ASSEMBLY AT KAROLINSKA INSTITUTET</small></p>	<p>Context</p> <p>The 2023 Nobel Prize in Physiology or Medicine has been awarded to Hungarian biochemist Katalin Karikó and American physician-scientist Drew Weissman.</p> <p>Key points</p> <ul style="list-style-type: none"> • They had been feted for “discoveries concerning nucleoside base modification that enabled the development of effective mRNA vaccines against COVID-19”. • Medicine Nobel is awarded annually by the Swedish Karolinska Institute • mRNA stands for messenger RNA • Messenger is so called because it carries instructions from the DNA to a cell’s cytoplasm, where those messages are ‘read’ to produce various proteins.
<p>mRNA Vaccines</p>	<p>About mRNA Vaccine</p> <ul style="list-style-type: none"> • The vaccine was first demonstrated in 1994 • They are also called messenger RNA • mRNA vaccines work by introducing a piece of mRNA directly into the cell • By using this mRNA, cells can produce the viral protein. • As part of a normal immune response, the immune system recognizes that the protein is foreign and has specialized proteins called antibodies. • Once produced, antibodies remain in the body, even after the body has rid itself of the pathogen so that the immune system can quickly respond if exposed again.



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Limitation - they need to be stored at extremely low temperatures as they get destroyed when exposed to the outside environment.

Astra BVR Missile



Context

The Indian Air Force (IAF) has placed two contracts with Bharat Dynamics Ltd. (BDL) for the indigenous Astra Beyond Visual Range (BVR) Missile.

About ASTRA missile

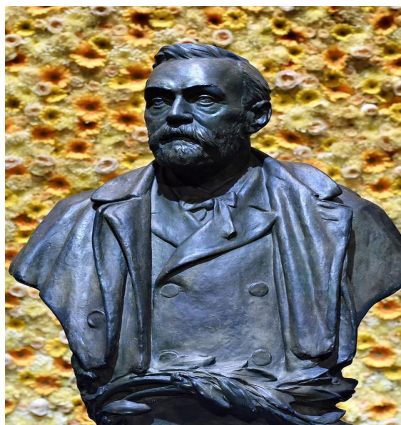
- It is an **indigenous** Beyond Visual Range (BVR) **air-to-air missile**.
- It is to engage and destroy highly maneuvering **supersonic aerial targets**.
- It is designed and developed by **the Defence Research and Development Laboratory (DRDL)**, Research Centre Imarat (RCI), and other laboratories of DRDO.
- The indigenous Astra BVR firing from homegrown Tejas fighters is a major step towards '**Aatmanirbhar Bharat**'.

LCA Tejas Fighter Aircraft

About Aircraft

- It is the lightest, smallest, and tailless **multi-role supersonic fighter aircraft** in its class.
- This aircraft is designed to carry a range of **air-to-air, and air-to-surface**.
- It is a precision-guided weapon.
- It has air-to-air **refueling capability**.
- The maximum payload capacity of Tejas is **4000 kg**.
- Speed: **Mach 1.8**.

Nobel Prizes



About Prize

- The Nobel Prizes were created by **Alfred Nobel**, a 19th-century businessman and chemist from Sweden.
- It is awarded to those who have done the best work for fraternity between nations.
- The prizes are given in **physics, chemistry, literature, peace, and medicine**.
- The first Nobel Prizes were presented in **1901**, five years after his death.
- In 1968, a sixth prize was created, for **economics**, by Sweden's central bank.
- To date, 60 women have won Nobel Prizes, including 25 in the scientific categories.



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Did you know?

- Only four women have won the Nobel Prize in physics and just two have won the economics prize.

MGNREGA Scheme

Context

The MGNREGA card holders from West Bengal are protesting in New Delhi for withholding MGNREGA funds.

About MGNREGA

- It is an act passed in 2005 that guarantees the "right to work" to rural citizens of India.
- It was introduced through the act of Mahatma Gandhi National Rural Employment Guarantee Act 2005.
- It works under the Ministry of Rural Development
- Aim of the scheme is to provide employment for unskilled workers.
- Under this, the government assures a minimum of 100 days of unskilled manual work to an adult member of an eligible rural household.
- The main objective of the MGNREGA is to provide employment to rural citizens and improve their economic conditions.
- It is a Centrally-Sponsored Scheme i.e. the scheme is jointly funded by the Central government and the State governments.

Indian cities in the world's top 10 nations with slowest traffic

Context

Bhiwandi in Maharashtra, Kolkata, and Bihar's Arrah are among the top 10 slowest cities in the world, according to a study conducted by the National Bureau of Economic Research (NBER).

About NBER

- The National Bureau of Economic Research (NBER) is a private, non-profit, non-partisan research organization.
- Its aim is to promote a greater understanding of how the economy works.
- It disseminates economic research among public policymakers, business professionals, and the academic community.




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<p>WHO approves use of malaria vaccine with adjuvant tech</p> <p>Did you know? Ghana became the first African country which approve the vaccine.</p>	<p>Context Recently The R21/Matrix-M malaria vaccine was recommended for use by the World Health Organization (WHO)</p> <p>About R21/Matrix-M</p> <ul style="list-style-type: none"> • It was developed by the University of Oxford and the Serum Institute of India, • It is the first vaccine to achieve more than 75% effectiveness. (The goal set by the World Health Organisation). • It has been approved for use in children aged 5-36 months, the age group at the highest risk of death from malaria. • Matrix-M, a saponin-based adjuvant developed by Novavax, is used in the vaccine to stimulate a stronger and longer-lasting immune response. • Antigen presentation in regional lymph nodes is improved by the Matrix-M adjuvant, which also encourages the entrance of antigen-presenting cells at the injection site.
<p>WHO record on Cholera</p>	<p>Context According to the World Health Organization (WHO)'s weekly epidemiological record, certain key findings were noted about Cholera</p> <p>Key findings</p> <ul style="list-style-type: none"> • World reported twice as many cholera cases in 2022 as in 2021 • Most cholera cases continue to be reported from Africa and Asia, with Europe accounting for a few "imported cases" • Between 2021 and 2022, Africa reported 29% fewer cases and 52% fewer deaths.




Kerala Regional News

<p>Sruthitharangam project</p> 	<p>In News: Cochlear implantation surgeries are undergoing under the Sruthitharangam project.</p> <p>Key facts Health Minister of Kerala, Veena George said that the cochlear implantation surgeries started in the hospitals empanelled for the Sruthitharangam project under the State Health Agency (SHA).</p> <p>About the project</p> <ul style="list-style-type: none"> • The Sruthitharangam Project is a state-wide cochlear implantation program. • The program is for children with hearing impairment in Kerala. • It is implemented by the Kerala Social Security Mission (KSSM). • funded by the state government. • The project aims to provide free cochlear implants and auditory verbal rehabilitation (AVR) to children from poor families. • To be eligible for the project, children must be under the age of 3 and have profound hearing loss in both ears. • A child must also come from families with an annual income of less than Rs. 2 lakh.
<p>Worst deficient monsoon in Kerala</p>	<p>In News: Kerala witnesses the third worst deficient monsoon in 123 years.</p> <p>Key facts</p> <ul style="list-style-type: none"> • The first phase of the monsoon that drew to a close in September recorded the third worst rainfall deficit over the state in the last 123 years. • Normal average rainfall is 201.86 cm but the state received just 132.61 cm during the period. • The highest deficient monsoons so far recorded in the state's history are in 1918 and 1976. • The meteorological department has informed that the second phase of the monsoon called 'Thulavarsham', which extends from October to December, is likely to receive above-normal rains.



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<p>Person in News: Sukumar</p> 	<p>In News: Cartoonist Sukumar passed away</p> <ul style="list-style-type: none"> • Cartoonist Sukumar (91) passed away in Kochi. • Sukumar has drawn cartoons in leading media including Mathrubhumi. <p>About Sukumar</p> <ul style="list-style-type: none"> • He was the founder and chairman of the Kerala Cartoon Academy. • He was born in 1932 and his real name is Sukumaran Potti. • He completed his education at Thiruvananthapuram University College. <p>Did you Know?</p> <ul style="list-style-type: none"> • Cartoonist K.S. Pillai was the first guru in the cartoon. • In 1950, the first cartoon was published in Vikatan.
<p>Kerala-Telangana Heritage Fest</p>	<p>In News: The three-day celebration of the Kerala-Telangana heritage festival will be held in Hyderabad.</p> <p>Key facts</p> <ul style="list-style-type: none"> • It has transformed the city into a vibrant tapestry of literary and performance traditions, seamlessly interwoven with contemporary art forms. • It featured a diverse array of folk arts, classical music and dance, theater, painting, sculpting, poetry sessions, and movies • It also aimed at creating fresh avenues for heritage appreciation • The festival also serves as a platform for Malayali groups in Telangana to voluntarily exhibit their expressive cultures. <p>Did you Know? The festival is a captivating blend of rural and urban experiences</p>
<p>Subsidy Scheme for Waste Management Equipment</p>	<p>In News: Kozhikode Corporation has launched a subsidy scheme for waste management equipment.</p> <p>Key facts</p> <ul style="list-style-type: none"> • The Kozhikode Corporation is providing source-level waste management equipment to households at 90% subsidy.



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- The project aimed at helping 56,500 households.
- So far only 37,000 households have applied for the equipment in two phases.
- Under the scheme, the civic body is providing waste management equipment such as biogas plants, Bokashi buckets, ring compost, pipe compost, and green bins at 10% of the actual cost.
- The project has **been introduced to bring down the quantity of waste.**

'Samagra' project

In News:

The Wayanad district panchayat has **launched Project Samagra.**

Key facts

- **It is** a comprehensive project for the overall development of the educational sector.
- The local body had earmarked a sum of **₹9 crore for the project in its 2023-24 budget**
- The program also offered free entrance examination coaching will be offered to all higher secondary students for the Common University Entrance Test (CUET)
- **12 programmes** have been incorporated in the project.
- It includes
 1. Vijnan Jyothi
 2. Gothra Deepthi
 3. Talent Hunt
 4. Gothra Fest
 5. Kalagramam
 6. One School One game
 7. Renovation works of school laboratories
 8. Setting up of computer laboratories
 9. Promotional projects for tribal children

Programmes under Samagra Project

Key Points:

- **Vijnan Jyothi:** It envisages promoting educational activities among the general category students
- **Gothra Deepthi:** It aims at promoting similar activities among tribal children in the district.
- **Talent Hunt:** It promotes the innate talents of students in various subjects
- **Gothra Fest:** It ensures the participation of tribal students in educational activities.
- **Kalagramam project:** Music, dance, and other skills will be promoted



മലയാളം



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- **Arike:** This programme aims to promote gender equality and empowerment of girls.
- **Uyare:** This programme aims to promote mental health and well-being among students.
- **One school One Game programme:** It will provide training in each game allotted to each school.
- **Renovation of school laboratories:** This programme aims to improve the infrastructure of school laboratories.
- **Setting up of computer laboratories:** This programme aims to provide all schools in Wayanad with access to computer laboratories.



പഠനം നേരത്തെ തുടങ്ങാം ജോലി നേടാം

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