10th Oct, 2024

1. Mental health in India's material world GS 2 (Social Issues)

Why in News: Recent tragedies involving young professionals, including a 26-year-old woman executive and a 38-year-old software engineer, have spotlighted a growing mental health crisis in India, exacerbated by immense work pressures and societal expectations. These incidents highlight the disconnect between perceived success and actual mental well-being, prompting urgent discussions on the state of mental health in a rapidly developing nation.

• The Rising Mental Health Crisis

- Surge in Disorders: India is witnessing an alarming rise in mental health disorders, with over 197 million people affected by conditions such as depression, anxiety, and substance abuse, as reported by The Lancet Psychiatry Commission.
- Impact of Economic Growth: While economic expansion has generated opportunities, it has also intensified societal pressures, driving individuals towards relentless productivity and material wealth at the expense of mental well-being.
- Existential Questions Ignored: Traditional inquiries about identity and purpose have been overshadowed by consumerism, resulting in a society where the pursuit of material success leads to a profound sense of purposelessness and emotional distress.



The Role of Consumerism

- Disconnect from Community: The focus on consumerism fosters a culture where luxury and material
 possessions define status, leading to feelings of inadequacy and social comparison, particularly in urban
 areas.
- Temporary Comfort vs. True Well-being: Material wealth may provide temporary relief, but it fails to address deeper emotional needs, causing individuals to feel isolated despite their achievements.
- Cycle of Dissatisfaction: The relentless pursuit of affluence traps individuals in a cycle of dissatisfaction, where personal success is measured by consumption rather than meaningful relationships or selfawareness.

Solutions and Community Focus

- Shift to Collective Well-being: Addressing the mental health crisis requires a shift from individual success
 to collective well-being, emphasizing the importance of strong social connections and supportive
 communities.
- Lessons from Other Countries: Initiatives like community gardens in Brazil exemplify how fostering social bonds can combat urban isolation, suggesting similar approaches could benefit Indian communities.
- Rethinking Freedom: Prioritizing community and connection over material consumption can cultivate a
 healthier society, where well-being is assessed by relationships and shared experiences rather than
 purchasing power.

2. Monetary Policy Committee Meeting 2024 GS 3 (Economy)

Why in News:

- The Reserve Bank of India (RBI) announced its fourth bi-monthly monetary policy for FY25 on October 9, 2024
- The RBI's Monetary Policy Committee (MPC) decided to keep the repo rate unchanged at 6.5%, marking the **tenth consecutive time the rate** has remained steady. Five out of six MPC members voted in favour of maintaining the current rate.

Monetary Policy Committee (MPC)

The Committee

- Under Section 45ZB of the amended RBI Act, 1934, the central government is empowered to constitute a six-member Monetary Policy Committee (MPC).
- MPC will determine the policy interest rate required to achieve the inflation target. The first such MPC was constituted in September 2016.

RBI holds rate at 6.5%, shifts stance to 'neutral'

Central Bank thus opens the door for a rate cut in the near future; Monetary Policy Committee notes that currently the macroeconomic parameters of inflation and growth are well balanced

Lalatendu Mishra MUMBAI

he Reserve Bank of India (RBI) on Wednesday maintained its benchmark interest rate at 6.5% for the 10th successive monetary policy review since April 2023, but opened the door for a rate cut in the near future by shifting its policy stance to "neutral".

The status quo on interest rates was approved by a majority of five out of six members of the Monetary Policy Committee (MPC) which met for three day starting October 7, with three new external members on board.

The change of the polic stance from "withdraw: of accommodation" t "neutral" was, howeve unanimously agreed upo by the committee, alon with a resolve to unambig uously focus on a durabl alignment of inflation wit

"The MPC noted that rurrently the macroeconomic parameters of inflation and growth are well balanced. Going forward, the moderation in heailine inflation is expected to reverse in September and likely to remain elevated in the near-term due to deverse base effects, unong other factors," RBI Governor Shaktikanta Das

that the inflation horse habeen brought to the stable that is closer to the targe within the tolerance ban compared to its height need levels two years ago, Mr. Das said. Retail inflation was under the centra bank's median target of 49 in July and August.

"We have to be very areful about opening the ate as the horse may mply bolt again. We must eep the horse under tight eash, so that we do not use control. Going for-



Shaktikanta Das

vard, we need to closely nonitor the evolving con litions for further confir nation of the disinflation ary impulses," he said.

The RBI did not after it 7.2% GDP growth projection and the 4.5% averag inflation estimate for 202-25, with risks evenly balanced. However, it di lower its second quarter ir flation projection to 4.19 from 4.4%, even as it espects that pace to pick ut 4.8% in the October to Be.

Asked about the inflaion analogy moving to torses from an elephant ited in earlier policy statenents, Mr. Das said: "It is tot a shift. Earlier I used lephant, this time I am usng horse. The reason is hat it is a war against inflaion and in a war, elethants and horses are used

stating that domestic growth has sustained its momentum, with private consumption and investment growing in tandem, he said resilient growth had given the RBI the space to focus on inflation so as to ensure its durable descent to the 4% target. "In these circumstances, the MPC decided to remain watchful of the evolving inflation outlook in the coming months," the Governor said.

"Unexpected weather events and worsening of geopolitical conflicts constitute major upside risk to inflation," he said.

Members of MPC

- As per the amended RBI act, the MPC shall consist of
 - the RBI Governor as its ex officio chairperson,
 - the Deputy Governor in charge of monetary policy,
 - an officer of the Bank to be nominated by the Central Board, and
 - three persons to be appointed by the central government.

Functions of MPC

- Setting Policy Interest Rates: The primary function of the MPC is to determine the policy interest rates, specifically the repo rate.
- Inflation Targeting: The current inflation target set by the government is a Consumer Price Index (CPI) inflation target of 4% with a tolerance band of +/- 2%.
- Economic Analysis and Forecasting: The MPC conducts thorough analysis and forecasting of various economic indicators, including inflation, GDP growth, employment, fiscal conditions, and global economic developments.
- Decision-Making: The MPC meets at least four times a year to review the monetary policy stance.

Current domestic and global situation against which the MPC meeting was held

- Domestic growth has continued its strong momentum, and the global economy has shown resilience since the last meeting.
- o However, risks remain due to geopolitical conflicts, financial market instability, and high public debt.
- On the bright side, world trade is showing signs of recovery.

Key highlights of the MPC meeting

- Key Policy rates remain unchanged
 - Repo Rate The repo rate now stands at 6.50 per cent.
 - Repo rate is the rate at which the Reserve Bank of India lends money to commercial banks in the event of any shortfall of funds.
 - The standing deposit facility (SDF) This rate stands at 6.25%.
 - The SDF is a liquidity window through which the RBI will give banks an option to park excess liquidity with it.
 - It is different from the reverse repo facility in that it does not require banks to provide collateral while parking funds.

- The idea of an SDF was first mooted in the Urjit Patel Monetary Policy Committee report in 2014.
- It later received the government's nod following an amendment to the RBI Act in 2018, vide the Finance Bill.
- The marginal standing facility (MSF) rate It stands at 6.75%.
 - MSF is a window for banks to borrow from the central bank in an emergency situation when inter-bank liquidity dries up completely.
- The Bank Rate It is now 6.75%.
 - Bank rate is the rate charged by the central bank for lending funds to commercial banks.
 - There is a slight difference between Bank Rate and Repo Rate. In Repo Rate, RBI lends money to the banks against securities for the short term only.

Policy stance changed

- The RBI has changed its policy stance changed to 'Neutral' from 'Withdrawal of Accommodation'.
 - Withdrawal of accommodation It means reducing the money supply in the system to control inflation. It rules out the option of cutting rates
 - Neutral stance This means that the central bank is open to either increasing or decreasing interest rates, depending on data related to inflation and economic growth.

GDP projection

- India's real GDP grew by 6.7 per cent in Q1.
- For FY25, the RBI kept its gross domestic product (GDP) projection unchanged at 7.2 per cent.

Inflation projection

- The MPC projected inflation at 4.5 per cent for FY25, the same as previously forecast.
- The RBI reported that headline inflation dropped significantly to 3.6% in July and 3.7% in August from 5.1% in June.
- However, the RBI warned that September inflation could rise due to adverse base effects and higher food prices, though food inflation is expected to ease by Q4 FY25 with better kharif and rabi harvests.
- Core inflation is likely to remain contained, influencing the RBI's shift to a 'Neutral' policy stance.
- Despite efforts to control inflation, risks such as unfavorable weather, geopolitical tensions, and rising food and metal prices could push inflation higher in the coming months.

Reserve Bank Climate Risk Information System (RB-CRIS)

- The RBI proposed to create a climate risk data repository, the RB-CRIS, to address gaps in climate-related data.
- It will have two parts: a publicly accessible web-based directory of data sources like meteorological and geospatial information, and a data portal with standardized datasets available only to regulated entities in phases.

Enhancement of transaction and wallet limits for UPI

- UPI Lite Wallet Limit Increased
 - The RBI has increased the UPI Lite wallet limit from Rs 2,000 to Rs 5,000 and pertransaction limit for the same from Rs 500 to Rs 1,000.
 - UPI Lite operates without using real-time core banking systems, while ensuring risk mitigation.
 - UPI Lite is a simplified version of UPI that lets users make small transactions without a UPI PIN.

UPI123 Pay Transaction Limit Enhanced

- The per-transaction limit for UPI123 Pay has been increased to ₹10,000 from ₹5,000. This feature is now available in 12 languages, broadening accessibility.
- UPI 123PAY is a payment system mainly for non-smart phone/feature phone user by which they can make payment using UPI without Internet in a safe and secure manner.

Beneficiary Account Name Look-up Facility

- The RBI proposed a new 'beneficiary account name look-up facility' for RTGS and NEFT transactions.
- This feature allows remitters to verify the beneficiary's name by entering the account number and branch IFSC code, reducing the chances of incorrect transfers and fraud.

o Foreclosure Charges on MSE Loans Removed

- To promote transparency and customer-centric lending, the RBI has banned foreclosure charges and pre-payment penalties on loans to micro and small enterprises (MSEs).
 - Foreclosure refers to the complete repayment of the outstanding loan amount before the end of the loan tenure.
 - E.g., If one takes a home loan for 10 years but decides to repay the entire loan in 5 years, the lender might charge a fee for doing so.
 - Pre-payment is when a borrower pays off a part of the loan early (in addition to regular monthly payments).
 - E.g., If you pay an extra ₹1 lakh towards your home loan principal, in addition to your regular EMI, the lender may impose a penalty for reducing the loan balance early
 - Additionally, banks and NBFCs are prohibited from levying such charges on floating rate term loans to individuals for non-business purposes.

3. Tharu Tribe GS 1 (Art and Culture)

• Why in News: The Pradhan Mantri Awas Yojana (PMAY) homes bring smiles to women of the Tharu tribe in the Kheri district near the Indo-Nepal border.

About Tharu Tribe:

- The Tharu tribe is one of the indigenous groups living in the Terai plain on the Indo-Nepal border.
- They live in both India and Nepal.
- o In the Indian terai, they live mostly in Uttarakhand, Uttar Pradesh and Bihar.
- o In 1967, this tribe was documented as a **Scheduled Tribe** by the Government of India.
- Language: They have their own language called Tharu or Tharuhati, a language of the Indo-Aryan subgroup of the Indo-Iranian group of the Indo-European family.
- Economy: Most Tharu practice agriculture, raise cattle, hunt, fish, and collect forest products.
- Most of their food involves rice, lentils, and vegetables.
- They build their homes from bamboo and mud.
- Society:
 - Despite their patrilineal social system, women have property rights greatly exceeding those recognized in Hindu society.
 - Tharu marriages are patrilocal within the tribe.
 - A common feature of the Tharu community is the joint family system of living in long houses.
 - Tharus live in compact villages, usually in the middle of a forest clearing. Each village is governed by a council and a headman.

4. MQ-9B Drones GS 2 (Security)

 Why in News: The Cabinet Committee on Security (CCS) has approved significant defense deals aimed at enhancing India's military capabilities, particularly in the naval domain. This includes the indigenous construction of nuclear-powered attack submarines and the acquisition of 31 MQ-9B remotely piloted aircraft (RPAs) from the United States.

About MQ-9B Drone

- The MQ-9B is a high-altitude, long-endurance (HALE) remotely piloted aircraft system developed by General Atomics.
- It is designed for a range of missions, including intelligence, surveillance, and reconnaissance (ISR) operations.
- The MQ-9B can operate in various environments and is equipped with advanced sensors, including synthetic aperture radar and electro-optical/infrared (EO/IR) cameras, allowing it to conduct detailed surveillance and reconnaissance tasks.
- Additionally, the drone can perform precision strikes on strategic targets, making it a versatile asset for military operations.
- The Indian Armed Forces will receive a mix of 16 Sky

 Guardian and 15 Sea Guardian variants, which will be assembled in India.
- The acquisition is part of a broader effort to enhance India's operational capabilities in both land and maritime domains, particularly in light of recent geopolitical tensions.
- The use of MQ-9B drones is expected to provide India with improved situational awareness and the ability to conduct effective operations across diverse scenarios.

5. <u>National Maritime Heritage Complex (NMHC)</u> GS 2 (Governance)

- Why in News: The Union Cabinet recently approved the development of the National Maritime Heritage Complex (NMHC) in Lothal, Gujarat.
- About National Maritime Heritage Complex (NMHC):
 - Under the Sagarmala programme, the Ministry of Ports, Shipping, and Waterways is developing the NMHC, a world-class facility at Lothal, Gujarat.
 - NMHC is set to become an international tourist destination, showcasing India's maritime heritage from ancient to modern times through an edutainment approach utilizing the latest technology.
 - The project will be completed in phases:

Ph: 9100791003

- Phase 1A will have an NMHC museum with 6 galleries, which also includes an Indian Navy & Coast Guard gallery envisaged to be one of the largest in the country with external naval artifacts, a replica model of Lothal township surrounded by an open aquatic gallery, and a jetty walkway.
- Phase 1B will have NMHC museum with 8 more galleries, Light house museum which is planned to be the world's tallest, Bagicha complex (with a car parking facility for about 1500 cars, a food hall, a medical centre, etc.).
- Phase 2 will have Coastal States Pavilions (to be developed by respective coastal states and union territories), Hospitality Zone (with maritime theme eco resorts and museuotels), Recreation of real-time Lothal City, Maritime Institute and hostel and 4 theme-based

CCS clears deals for 31 MQ-9B drones and submarines

Dinakar Peri NEW DELHI

The Cabinet Committee on Security on Wednesday approved two high-profile deals for the purchase of 31 MQ-9B High Altitude Long Endurance (HALE) Unmanned Aerial Vehicles (UAV) from General Atomics of the U.S. and indigenous construction of two nuclear attack submarines (SSNs).



as confirmed by two official sources.

Approval from CCS is the MQ-9B deal now awaits formal conclusion. As part of the deal, General Atomics is scheduled to establish a Global Maintenance, Repair and Overhaul (MRO) facility in India which would count towards offset obligations.

would come obligations. As reported by The Hindu earlier in end-July, the Defence Acquisition Council (DAC) chaired by Mr. Singh had approved amendments to the MQ-9B deal related to indigenous content and related aspects

pects.
The deal for 31 MQ-9B UAVs, 15 Sea Guardians for the Indian Navy and 16 Sky Guardians, eight each for the Indian Army and Air



pproval from CCS is the final tep and the MQ-9B deal now waits formal conclusion.

Force, is estimated to cost

India has already indigenously manufactured nuclear-powered ballistic missile submarines (SSBN) and the SSN project will be a follow-on to that. India's second SSBN,

India's second SSBN, INS Arighaat, was commissioned into service at Visakhapatnam in end-August joining INS Arihant, which was commissioned into service in 2016.

The SSNs are a critical requirement for the Navy these their published on the service of the Navy these their published on the service of the Navy the state of the Navy the SNA Navy

The SSNs are a critical requirement for the Navy as they give unlimited endurance to perform a variety of tasks, their endurance only limited by that of the crew.

of the crew.

India has in the past leased two SSNs from Russia and a third SSN which has been contracted is expected to join service in another two or three years after some delay.

Website: https://delhiiasinstitution.com/ Email: iasncsc@gmail.com

parks (Maritime & Naval Theme Park, Climate Change Theme Park, Monuments Park, and Adventure & Amusement Park).

- Phases 1A and 1B of the project are to be developed in Engineering, Procurement and Construction (EPC) mode and Phase 2 of the project will be developed through land subleasing/ PPP to establish NMHC as a world-class heritage museum.
- A separate society will be set up for the development of future phases, to be governed by a Governing Council headed by the Minister of Ports, Shipping and Waterways under the Societies Registration Act,
 - This society will manage the implementation and operation of the NMHC.

6. Nobel Prize in Chemistry for Decoding Protein Design and Structures Recent events of importance

Why in News:

- The 2024 Nobel Prize for chemistry will be shared by (American scientist) David Baker "for computational protein design" along with (Briton scientist) Demis Hassabis and (American scientist) John Jumper "for protein structure prediction."
- Last year the Nobel Prize for Chemistry was jointly awarded to Moungi G. Bawendi, Louis E. Brus and Alexei I. Ekimov for the discovery and synthesis of quantum dots.

Why is Work on Protein Important?

- The role played by proteins:
 - Proteins are vital for life and participate in nearly all biological processes. For example: Haemoglobin transports oxygen and Insulin aids in glucose
 - Hence, any disruption in protein production can impact human health.

Significance of protein structure:

- Made of long chains of 20 different amino acids, their unique sequences determine their structure and function.
- Understanding a protein's shape is key to knowing
- Challenges in determining protein structure: Historically, determining protein structures has been slow, often taking months or years using x-ray crystallography.

for work on protein design and prediction of structures Vasudevan Mukunth

Trio wins Chemistry Nobel

The 2024 Nobel Prize for The 2024 Nobel Prize for Chemistry was shared by David Baker "for computa-tional protein design" along with Demis Hassabis and John Jumper "for pro-tein structure prediction," the Royal Swedish Acade-my of Sciences announced on Wednesday.

my or scentes amounted on Wednesday. Heiner Linke, chair of the Nobel Committee for Chemistry, said the award honoured research that connected the sequence of amino acids that make up a protein and the protein's structure.

Mr. Baker led a team that in 2003 designed a new protein using bespoke software methods. They and others have since refined these methods to be

and others have since re-efined these methods to be able to point the way to 'designer' proteins intend-ed for specific applications. Johan Aqvist, a former chair of the chemistry No-bel Committee, called the variety of proteins deve-loped by Mr. Baker et al. to be "absolutely mind-blow-ing" and that "it seems that you can almost construct any type of protein with this technology". Mr. Hassabis and Mr. Jumper received the other half of the prize for their hand in developing an ar-thicial intelligence model

rificial intelligence model called AlphaFold 2 that could predict the struc-tures of millions of pro-teins. Human scientists had done that for only around 1.7 lakh proteins



ent: (From left) David Baker, John Jumper and De e recipients of Nobel Prize for Chemistry, 2024, AP



With skillful use of artificial intelligence, Demis Hassabis and John Jumper made it possible to predict the complex structure of essentially any known protein in nature

HEINER LINKE

until then, although the structures and patterns

until then, although the structures and patterns therein were used to train AlphaFold.
"Four years ago in 2020, Demis Hassabis and John Jumper managed to crack the code. With skillful use of artificial intelligence, they made it possible to predict the complex structure of essentially any known protein in nature," known protein in nature, Mr. Linke said.

Unusual pattern
The Nobel Prize for Mr.
Hassabis and Mr. Jumper
comes relatively quickly after the corresponding

work, around four to six years. There is usually a gap of a few decades bet-ween the work and the prize because the former does not immediately prove to be of "greatest be-nefit to humankind" – a criterion for winning. criterion for winning

criterion for winning.
For example, John Goodenough shared the 2019
chemistry prize for his
work on lithium-ion batteries in 1970s, John Nash, Jr.
won part of the Nobel Memorial Prize in Economic
Sciences in 1994 for work
he had done in the 1950s.
The chemistry prize this
wear also continues a rela-

The chemistry prize this category of the prize going to non-chemists — although 1981 chemistry laureate Roald Hoffmann has interpreted this to be a mark of chemistry's "far and influential reach", especially in biochemistry and molecular biology.

Mr. Baker works at the University of Washington in Seattle and Mr. Hassabis and Mr. Jumper work at Google DeepMind in London.

What the 2024 Chemistry Nobel was Awarded For?

- For creating innovative tool AlphaFold:
 - AlphaFold is an Al tool created by Hassabis and Jumper that accurately predicts protein structures in a fraction of the time.
 - It utilises known amino acid sequences to make fast and reliable predictions.

For designing new proteins:

- Baker created **Rosetta software** to predict protein structures.
- He used Rosetta to reverse-engineer protein design, allowing the creation of new proteins by entering desired structures.
- David Baker developed **synthetic proteins** that do not exist in nature.
- As his methods are more efficient, it allowed for quicker development of proteins for specific tasks, like breaking down plastics.

• What Makes the 2024 Chemistry Nobel Significant?

- Simplifies understanding of proteins: Enhanced visualisation of protein structures helps understand biological functions and disease mechanisms, including antibiotic resistance and microbial degradation of plastics.
- Key to understanding critical areas: The ability to design proteins with novel functions opens doors to: nanomaterials, targeted pharmaceuticals, rapid vaccine development and environmental solutions.
- Curing diseases: These innovations have far-reaching implications for developing new treatments and addressing protein-related diseases.
- Recognition to AI: The Nobel Prize emphasises the transformative role of AI in biological research.

Interesting facts about the 2024 Chemistry Nobel:

Winners: Baker works at the University of Washington in Seattle and Hassabis and Jumper work at Google DeepMind in London.

Comes relatively quicker:

- The Nobel Prize for Hassabis and Jumper comes relatively quickly after the corresponding work (of around 4 to 6 years).
- There is usually a gap of a few decades between the work and the prize because the former doesn't immediately prove to be of greatest benefit to humankind, which is a criterion for winning.
- For example, John Goodenough shared the 2019 chemistry prize for his work on lithium-ion batteries in the late 1970s.

Given to non-chemists:

- The Chemistry Nobel this year also continues a relatively new tradition in this category of the prize going to non-chemists.
- In 1981, chemistry laureate Roald Hoffmann interpreted this to be a mark of chemistry's far and influential reach, especially in biochemistry and molecular biology.

7. Universal supply of fortified rice till December 2028 GS 2 (Governance)

Why in News:

Modi, approved the continuation of the universal supply of fortified rice under all Union government schemes, including the Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY), from July 2024 until December 2028.

Rice with added nutrients, Centre to continue supply until 2028



The rice fortification initiative will continue as a central sector initiative with 100% funding by the Centre
as part of PMGKAY (Food Subsidy), thus providing a unified institutional mechanism for implementation.

• Rice fortification

About/definition

The Food Safety and Standards Authority of India (FSSAI) defines fortification as the deliberate addition of essential micronutrients to food to improve nutritional quality and provide public health benefits, with minimal health risks.

Need for fortification of rice

Malnutrition in India

- India faces high levels of malnutrition, especially among women and children.
- According to the National Family Health Survey (NFHS-5), anaemia affects a significant
 portion of the population, with every second woman being anaemic and every third
 child stunted.

 Deficiencies in iron, Vitamin B12, and folic acid are widespread, affecting health and productivity.

Fortification of Rice as a Solution

- Rice, a staple food for two-thirds of India's population, is considered an ideal candidate for fortification to address malnutrition.
- Per capita rice consumption in India is 6.8 kg per month, and fortifying it with micronutrients can help supplement the diet of the poor.

Fortification Process

- Fortification technologies include coating, dusting, and extrusion, with extrusion being the most suitable for India.
- In extrusion, dry rice flour is mixed with micronutrients and water, the passed through an extruder to create fortified rice kernels (FRKs), which resemble regular rice.
- These kernels are blended with regular rice in a 10g FRK to 1 kg rice ratio to produce fortified rice.

Nutrient Content in Fortified Rice

- According to FSSAI standards, 1 kg of fortified rice contains:
 - Iron: 28 mg-42.5 mg
 - Folic acid: 75-125 micrograms
 - Vitamin B12: 0.75-1.25 micrograms
- It may also be fortified with other micronutrients like zinc, vitamin A, and various B vitamins.

Cooking and Consumption of Fortified Rice

- Fortified rice is cooked and eaten just like regular rice, and it retains its micronutrient levels after cooking.
- Packaging is marked with a logo ('+F') and labeled as "Fortified with Iron, Folic Acid, and Vitamin B12."

• Progress of the Rice Fortification Initiative

- o In 2015, PM Modi announced that rice distributed under government schemes, such as the Public Distribution System (PDS) and Mid-Day Meal Scheme, would be fortified by 2024.
- The Centre implemented the initiative in phases
 - Phase 1: Integrated Child Development Services and PM POSHAN by March 2022.
 - Phase 2: PDS and welfare schemes in 112 Aspirational Districts by March 2023.
 - Phase 3: Full nationwide coverage by March 2024.

Cost and Scale of the Initiative

- The annual cost of rice fortification is about ₹2,700 crore, less than 2% of India's food subsidy bill.
- From 2019 to March 2024, 406 lakh metric tonnes of fortified rice have been distributed through the PDS.
- There are 925 fortified rice manufacturers with a capacity of 111 lakh metric tonnes per annum, and rice mills have a capacity of 223 lakh metric tonnes for blending.
- The government has invested ₹11,000 crore in developing the fortified rice supply chain.

Pradhan Mantri Garib Kalyan Anna Yojana (PM-GKAY)

About

- PM-GKAY is a food security welfare scheme announced by the Central Government in March 2020, during the Covid-19 pandemic.
- It is a part of Pradhan Mantri Garib Kalyan Package (PMGKP) to help the poor fight the battle against Covid-19.

Objective:

- To feed the poorest citizens of India by providing grain through the Public Distribution System, to all the **priority households** (ration card holders and those identified by the Antyodaya Anna Yojana scheme).
- Launched in 2000, Antyodaya Anna Yojana is a Centrally Sponsored Scheme to provide highly subsidised food to millions of the poorest families.

Entitlement

- The eligible ration cardholders under NFSA 2013 were entitled to 5 kg free wheat/rice per person per month.
- This was in addition to the 5 kg food grains already provided to the beneficiaries under the National Food Security Act, 2013.

Implementing Agency:

 Department of Food and Public Distribution, Ministry of Consumer Affairs, Food and Public Distribution.

Merger of PM-GKAY and NFSA

- In December 2022, the Government amalgamated PMGKAY with NFSA.
- After the merger, the entire quantity of 5 kg and 35 kg under the NFSA was made available free of cost.
 - With this, India has a Central food security legislation which gives the poor a 'right' to receive 5 kg foodgrains free of cost.
 - Earlier, beneficiaries paid a small price of Rs 3 per kg for rice and Rs 2 per kg for wheat.

Extension of PM-GKAY

- The scheme was extended for five years, starting January 1, 2024.
- It was previously extended until December 31, 2023

National Food Security Act (NFSA)

- The NFSA, 2013 was notified to provide for food and nutritional security, by ensuring access to adequate
 quantity of quality food at affordable prices to people to live a life with dignity.
- It provides a legal right to persons belonging to "eligible households" to receive food grains at subsidised price/central issue prices under the under Targeted Public Distribution System (TPDS).
- O State governments are tasked with identifying Antyodaya Anna Yojana (AAY poorest of the poor) and priority households (PHH) beneficiaries within the TPDS-covered population.
- Every person in the PHH category receives 5 kg of food grains per month at rice at Rs 3/kg, wheat at Rs 2/kg and coarse grain at Re 1/kg.
 - Each Antyodaya Anna Yojana (AAY) household gets Rs 35 kg of food grains per month.
- The Act covers up to 75% of the rural population and up to 50% of the urban population for receiving subsidised food grains (overall 67% of the total population).

MCQ Current Affairs 10th Oct, 2024

1. Where is the National Maritime Heritage Complex (NMHC) being developed?

- a) Mumbai, Maharashtra
- b) Visakhapatnam, Andhra Pradesh
- c) Kochi, Kerala
- d) Lothal, Gujarat

2. In which one of the following groups of states is the Tharu tribe mostly found?

- a) Punjab, Haryana, Rajasthan
- b) Assam, Meghalaya, Manipur
- c) Uttarakhand, Uttar Pradesh, Bihar
- d) Maharashtra, Gujarat, Madhya Pradesh

3. Consider the following statements regarding Rice Fortification:

- A. It is a process of adding Fortified Rice Kernels which is nearly identical to traditional rice in aroma and taste.
- B. It helps in addressing the micronutrient deficiency.

Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

4. IBSAMAR Exercise, recently in news, is conducted between:

- a) India, Brazil and South Africa
- b) India, Brazil South Korea
- c) India, Brunei and South Africa
- d) Israel, Brazil and South Africa

5. INS Nirdeshak, recently in news, is a:

- a) Submarine
- b) Aircraft carrier
- c) Guided Missile Destroyer
- d) Survey Vessel

Answers Current Affairs 10th Oct, 2024

- 1. d
- 2. С
- 3. С
- 4. а
- 5. d

