

# **UPSC Daily Current Affairs** | Prelim Bits 28-12-2024

# **Reforms initiated by Manmohan Singh**

# Why in News?

The architect of India's economic liberalisation Dr Manmohan Singh breathed his last recently.

• He is known for heralding the era of market economy in India.

Manmohan Singh served as finance minister from 1991-96 and as the prime minister from 2004 to 2014.

### Fiscal Reforms

- **Fiscal Discipline** The government set the target of bringing down *fiscal deficit to 3-4%* in the medium- term.
- It set the target of bringing the fiscal deficit target of 1992-93 to 5%, down from 6.2% in the previous year.
- **Rationalising government spending** Through <u>major cuts in subsidies and non-planned expenditures</u>.
- Thus, the government announced major tax reforms to boost its tax revenue.

# **Trade Policy Reforms**

- **Rupee Devaluation** Rupee was <u>devalued 18%</u> to make Indian exports competitive.
- **Import reforms** Import restrictions for exporters were reduced.
- Import of capital goods was allowed without the need of government permission.
- **Export reforms** Exports trading houses were allowed to have 51% foreign equity.
- The government rationalised tariff structure and removed of quantitative restrictions on imports.

# **Monetary Policy Reforms**

- **Banking reforms** Setting of interest rates by lenders were deregulated, <u>new private</u> <u>bank licences issued</u>.
- <u>Public listing of banks</u> and moving to a new framework of recognition of accounts and introduction of capital adequacy norms <u>recommended by Narasimham committee</u>.
- **Tighter policies** Tighter monetary and credit policy was envisaged to contain the current account deficit and to reduce non-discretionary imports.
- **Introduced new monetary tools** <u>364-day T-bills</u>, <u>10 and 15-year securities</u> were introduced for the government to borrow from the market.

# **Industrial Policy Reforms**

- **Licensing reforms** *Industrial licensing was abolished* for all industries except 18 environmentally-risky sectors
- Amended Monopolies & Restrictive Trade Practices MRTP Act was repealed to eliminate the need for prior approval for capacity expansion by companies.
- Increased Private role- Greater private sector participation was allowed in core and basic industries.
- **Decreased Government control** Number of industries reserved for the public sector was *reduced to 8 from 17*.
- Small-scale enterprises were allowed to sell 44% equity to large companies.

# FDI Policy reforms

- The limit for *foreign equity holding raised from 40% to 51*% in priority sector industries
- *Foreign Investment Promotion Board* was established to streamline the process of approval of FDI.

# **Telecom Policy reforms**

• Introduced a unified access licensing regime for telecom services across the country in his tenure as PM between 2004-14.

### Reference

The Indian Express | Top Reforms initiated by Manmohan Singh

# Matsya Seva Kendras (MSKs)

# Why in News?

The need for strengthening last-mile fisheries and aquaculture extension services is highlighted recently by the Government of India.

- It is a *fisheries extension and support services*.
- Launched in <u>2020</u>.
- **Aim** To provide a *one-stop solution for fishers and fish farmers* through a range of extension services provided by trained aquaculture professionals.
- Umbrella Scheme Pradhan Mantri Matsya Samapada Yojana (PMMSY).
- Nodal Ministry Ministry of Fisheries, Animal Husbandry & Dairying.
- Government assistance Upto 60% covers women and weaker sections.
- **Fund dispersal** Funds have been provided <u>to State governments and Union</u> Territories for operationalising **102 such Kendras**.
- Functions It establishes lab for *water, soil, and microbial analysis* to conduct request-based disease tests.
- It focuses on *capacity building* for fishers/fish farmers on varied seed/feed inputs backed with the required technology infusion.
- **Future proposals** Government advises MSKs to mobilise start-ups, cooperatives, fish farmers' producer organisations, joint liability groups, and self-help groups to share best practices.

### Other initiatives of Fisheries Extension Services

• **Sagar Mitras** – They are deployed in coastal States and U.T.s as a vital *interface* between the government and sea-borne fishers.

### Compile Information on

- · Daily marine catch
- · Price fluctuations
- Marketing needs at fish landing centres/harbours

### Disemminate Information on

- · Local regulations
- · Weather forecasts
- Natural calamities
- · Hygienic fish handling
- · Potential fishing zones in the seas.
- National Fisheries Digital Paltform It is a platform to formalize the fisheries sector.
- **AquaBazaar** It is a *nationwide virtual learning platform*, initiated by National Fisheries Development Board.
- It enables experts to clarify basic concepts and provide practical demonstrations to fishers on breeding/seed production of commercially important fish.

# **India's Fisheries Sector**

- **National Fish Production** It has witnessed an 83% since 2013-14, that stands at a record 175 lakh tons in 2022-23.
- With 75% of this coming from inland fisheries.
- India is the  $2^{nd}$  largest fish and aquaculture producer globally.

### Reference

The Hindu Matsya Seva Kendras (MSKs)

### **Increased Risk H5N1 Virus in Humans**

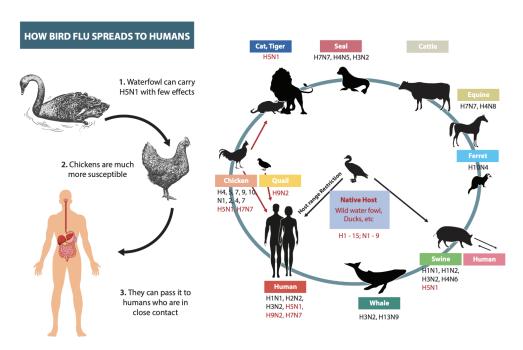
### Why in News?

Recently, the researchers found that circulating the H5N1 clade virus attached better in the human respiratory tract.

• **Avian influenza** – It is highly contagious and spreads through direct contact with infected birds or their secretions, including saliva, feathers, and faeces.

**Avian influenza** is a zoonotic disease, meaning it can spread from animals to humans.

- <u>H5N1</u> It is a subtype of Avian Influenza A, was 1<sup>st</sup> detected in geese, China on 1996 and causing outbreaks in birds since then.
- Key causes of spread
  - Wildlife spillover
  - Large-scale poultry farming and poor biosecurity measures
  - Improper cooking practices



H5N1 Clade	
Clade 2.3.2.1a	• <u>Detected in a child</u> traveler returning to Australia from India, 2024.
Clade 2.3.4.4b	<ul> <li>Identified in dead migratory birds in China, November 2021.</li> <li>It is affecting wild and domestic birds and mammals worldwide.</li> <li>Since 2020, it led to an unprecedented number of deaths in wild birds and poultry in many countries.</li> <li>In 2021, spread to North America and in 2022 to Central and South America.</li> </ul>

**A** clade, in biology, is a group of organisms that consists of a common ancestor and all of its descendants.

### **H5N1** in Humans

- **H5N1 clade 2.3.4.4b** Influenza A virus *cross the species barrier and infect humans* and spread from one person to another.
- It *infect the cells in the respiratory epithelium* of the upper respiratory tract.
- It is endowed with the ability to attach to and replicate in the upper respiratory tract lead to infection and transmission of the virus.
- The ability to attach to cells in the lower respiratory tract is associated with its ability to cause severe respiratory disease.
- **Increased risk** The receptor binding repertoire of H5N1 virus has expanded to attach to receptors in the human upper and lower respiratory tracts.
  - There have been <u>64 confirmed human cases</u> of H5N1 clade 2.3.4.4b in the U.S. as of December 2024.

The H5N1 virus has now established its presence in 108 countries across 5 continents, impacting even endangered species like the California condor and polar bears. Alarmingly, bird flu was detected in gentoo and King penguins in

Antarctica for the first time in January 2024.

### **References**

- 1. The Hindu | H5N1 Infection on human
- 2. WHO| Avian influenza A(H5N1) virus

### **Parker Solar Probe**

# Why in News?

Recently, Parker Solar Probe made history by surviving the closest-ever approach to the Sun.

- Launched in <u>2018</u>.
- Launched by NASA.
- Mission To "Touch the Sun".
- It is designed to fly *within about 4 million miles* (6.5 million kilometers) of the Sun's surface.
- Aim To make observations of the outer corona of the Sun.

It became the 1<sup>st</sup> spacecraft to fly through the corona, the Sun's upper atmosphere in 2021.

- **Study objectives** To *trace the energy flow*, to study magnetic fields, plasma, energetic particles, and to image the solar wind.
- **Movement** It gradually circling closer towards the sun, using flybys of Venus to gravitationally pull it into a tighter orbit with the sun.
- Every orbit bringing it closer, the probe faces brutal heat and radiation.
- 4 Instruments
  - Fields Experiment (FIELDS)
  - Integrated Science Investigation of the Sun (ISIS)
  - Wide Field Imager for Solar Probe (WISPR)
  - Solar Wind Electrons Alphas and Protons (SWEAP)
- **Thermal protector** An 11.5cm thick carbon-composite shield protect from temperatures of nearly 2,500 degrees Fahrenheit.
- **Speed** It moves *faster than any human-made object*, up to 430,000 mph.
- **Significance** It flies more than 7 times closer to the Sun than any spacecraft and over 7 years, it will complete 24 orbits around the Sun.

# Solar probe touches Sun's outer atmosphere Parker Solar Probe is now only 3.8 million miles from the Sun

# Mercury 36 million 67 million 93 million miles miles miles Objects not shown to scale

### References

- 1. The Hindul Parker Solar Probe Makes History
- 2. NASA| Parker Solar Probe

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# **History, Art and Culture**

# **Urs Festival**

- Countdown for 813<sup>th</sup> Urs begins.
- It is an annual festival held at Ajmer, Rajasthan.
- Commemoration For the death anniversary of Sufi saint Hazrat Khwaja Moinuddin
- Khwaja Moinuddin Chishti He arrived along with Sultan Illtuttmish and promulgated the Chishtiyya Order of Sufism.
- He is also known as Garib Nawaz.

### Geography

# Three Gorges Dam

- Located in China's Hubei Province.
- Built on Yangtze River.
- It is world's largest Dam.

# **International Relations and Issues**

# **India-china Trans-border River Sharing**

- India and China *don't have any agreements*.
- 2002 Memorandum of Understanding (MoU) For sharing hydrological information on the Brahmaputra River during the flood seasons.
- In the aftermath of the 2013 Doklam standoff, Beijing suspended data sharing, which resumed only in 2018.

# **Operation Poseidon Archer**

- It is a sustained bombing campaign to degrade Houthi military capabilities in Yemen.
- Launched by United States, United Kingdom, and their allies.
- **Supplements** *Operation Prosperity Guardian*, a maritime security operation begun in December 2023 to protect shipping in the Red Sea from attacks by the militants.

# Agriculture

# Rambhog Paddy

- **Features** <u>Sweet smell</u>, and taste which makes it to differentiate from other paddy varieties.
- It is grown in Kanpur Dehat and Kanpur Nagar districts, located in the Terai region of Uttar Pradesh.

### **Environment**

# Article 6 of the Paris Agreement

- Paris Agreement At COP 21 of UNFCCC in 2015.
- **Article 6** It sets out how countries can pursue voluntary cooperation to reach their climate targets.
- It facilitates emission reduction through 3 pathways
  - Internationally Transferred Mitigation Outcomes
  - UN-regulated global carbon market
  - Non-market approaches.

### The Bald Eagle

- It is a key symbol of the United States, has been officially named the national bird.
- **Morphology** White head, yellow beak, and brown feathers.
- **Historical Importance** since 1782, it symbolizes freedom and bravery in USA.
- It has appeared on the Great Seal of the United States since its final design was approved.

### **Science**

### Metabolic dysfunction-associated steatotic liver disease (MASLD)

- It is the updated term for *non-alcoholic fatty liver disease*.
- It has connections to metabolic health, heart health, and cancer risk.
- **Causes** It is *strongly linked to metabolic syndrome*, which includes obesity, diabetes, hypertension, and dyslipidemia.
- A <u>diet high in carbohydrates</u>, particularly refined sugars and starches, results in elevated insulin levels.
- Chronically high insulin levels lead to insulin resistance, resulting in the conversion of excess glucose into fatty acids that accumulate in the liver.

### Miscellaneous

# INS Sarvekshak (J22)

- Indian Navy Ship, INS Sarvekshak, arrived at <u>Port Louis in Mauritius</u> for undertaking <u>Hydrographic Surveys</u>.
- Fitted with survey equipment Deep Sea Multi beam echo sounder system, Side Scan Sonars and a fully automated digital surveying and processing system.

# **Quality Council of India**

- **Formed in** 1997.
- **Formed by** Government of India and major industry groups like ASSOCHAM, CII, and FICCI.
- 1<sup>st</sup> chairman Mr. Ratan Tata.
- It is a national body for accreditation and is a non-profit organization under the Societies Registration Act XXI of 1860.

