

17-06-2022

Web 5.0

Why in Newspapers?

The former Chief Executive Officer (CEO) of Twitter, Jack Dorsey, recently announced his vision for a new decentralized web platform. This new platform is being called 'Web 5.0'.

Quick Issue?

- It aims to return “the ownership of their data and identities to individuals”.
- Web 1.0 shall mean “read-only web”, ‘Web 2.0’ shall mean “participative social web”, and ‘Web 3.0’ (Web 3.0) stands for “Read, Write and Execute Web”.

Historical Background?

- Web 1.0: Web 1.0 was only about reading and getting information.
- Web 2.0 was concerned with reading, writing and creating or creating. So, users joined social platforms, and because of this created content these platforms expanded in size.
- Web 3.0 deals with read, write and ownership. So, creators and creators can now own a part of their community through NFTs, tokens, etc.
- Web 5.0 is being developed by The Block Head (TBH), the bitcoin business unit of Jack Dorsey.
- Simply put, Web 5.0 is a combination of Web 2.0 and Web 3.0 (Web 2.0 plus Web 3.0), i.e. it will include features of both 'Web 2.0' and Web '3.0', which allow users to 'own their' on the Internet. will be allowed to 'own ownership' of the identity and 'control your data'.
- Both Web 3.0 and Web 5.0 envision the Internet—without the threat of censorship by governments or big tech, and without the fear of significant cuts.
- The full name of IoT is Internet of Things. It is used to transfer data from one device to another with the help of sensors, software and technology.
- Internet of Things means "accessing and controlling devices using the Internet"
- Through Internet of Things, we can access and control devices with the help of Internet.

Other Key Facts?

History of IoT

- **1970** – The actual idea of connected devices was proposed
- **1990** – John Romkey created a toaster that could be turned on/off over the Internet
- **1995**– Siemens founded M2M. Introduced the first cellular module manufactured for
- **1999**– The term "Internet of Things" was widely accepted by Kevin Ashton during his work at P&G
- **2004** - The term was mentioned in well-known publications such as The Guardian, Boston Globe and Scientific American.
- **2005**- The International Telecommunications Union (ITU) of the UN published its first report on the subject.
- **2008** – Internet of Things (IOT) was born
- **2011** – Market research company Gartner includes "The Internet of Things" technology in its research.



- In other words, "all those physical devices that are connected to the Internet and which collect and share data. It's called IoT.
- In the Internet of Things, things mean, "all those things connected to the Internet which we use every day in our life such as - mobile phone, smart watch, fan in the house, and car etc." We can access all these things by connecting to the Internet. IoT is used to accelerate work in the organization and industry. For example, to complete the work on time, to provide good service to the customer, and to increase the value of business in the market.

Likely Question Asked In Preliminary Exam

Que. Social networking website is -

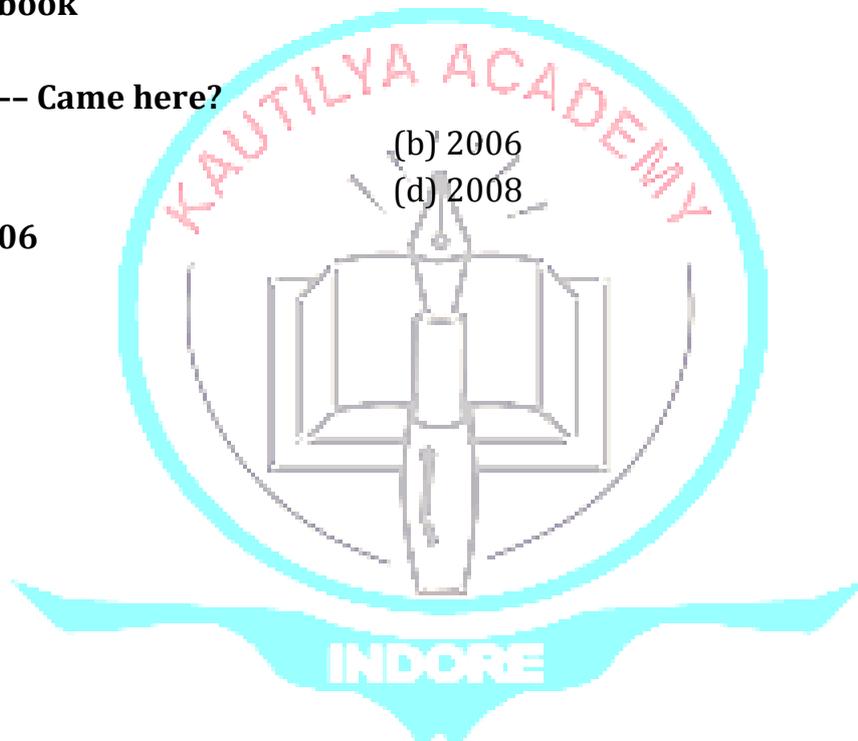
- (a) Amazon
- (b) Google
- (c) Facebook
- (d) none of these

Answer - (c) Facebook

Que. Twitter ----- Came here?

- (a) 2005
- (b) 2006
- (c) 2007
- (d) 2008

Answer- (b) In 2006





Prithvi-II Missile

Why in Newspapers?

Recently India successfully test-fired Prithvi-II, a short-range ballistic missile capable of surface-to-surface, at night.

Quick Issue?

- Earlier, the intermediate range ballistic missile Agni-IV was test-fired, which was 4,000 km. distance can be covered.
- Prithvi-II is an indigenously developed surface-to-surface short-range ballistic missile (SRBM) with a range of about 250-350 km. And it can carry one ton payload.
- The Prithvi-II class is a single-stage liquid-fueled missile, with a range of 500-1000 kg. warhead mounting capability.

Historical Background?

- This missile system is capable of hitting targets with a very high degree of accuracy.
- The state-of-the-art missile uses an advanced inertial guidance system with efficient trajectory to hit its target.
- It was initially developed as the primary user for the Indian Air Force and was later inducted into the Indian Army as well.
- While the missile was first inducted into India's Strategic Forces Command in 2003, it was the first missile developed under the IGMDP.
- Under the Integrated Guided Missile Development Program (IGMDP) of India's Defence Research and Development Organization (DRDO).
- The Prithvi missile system consists of various tactical surface-to-surface short-range ballistic missiles (SRBMs).
- Its development started in the year 1983 and it was India's first indigenous ballistic missile.

Other Key Facts?

Integrated Guided Missile Development Program (IGMDP):

- IGMDP was a program of the Indian Ministry of Defence for research and development of a wide range of missiles.
- The project was started in the year 1982-1983 under the leadership of Dr. APJ Abdul Kalam
- This program made Dr. APJ Abdul Kalam the Missile Man of India.
- The Integrated Guided Missile Program was completed in the year 2008.

Five missiles developed under IGMDP:

- The 5 missiles (P-A-T-N-A) developed under this program are:
 - **Prithvi:** Short-range ballistic missile capable of surface-to-surface strikes.
 - **Agni:** A medium-range ballistic missile capable of surface-to-surface strikes, i.e. Agni (1,2,3,4,5).
 - **Trishul:** Short-range surface-to-air missile capable of hitting the ground.
 - **Nag:** Third generation anti-tank missile.
 - **Akash:** A medium-range surface-to-air missile capable of hitting the surface.



- Its first test was done in the year 1988 from SHAR Center, Sriharikota.
- Its range is 150-300 km.
- The naval variant of Prithvi I and Prithvi III class missiles is code-named 'Dhanush'.
- The propulsion technology was based on the Soviet SA-2 surface-to-air missile.

Likely Question Asked In Preliminary Exam

Que. Which of the following statement(s) is/are correct with respect to Agni-IV missile?

1. It is a surface-to-surface missile.
2. It is propelled only by liquid propellant.
3. It is about 7500 km. It is capable of delivering one ton of nuclear warhead to a distance.

Select the correct answer using the code given below :

- (a) 1 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

Answer: (a) 1 only

