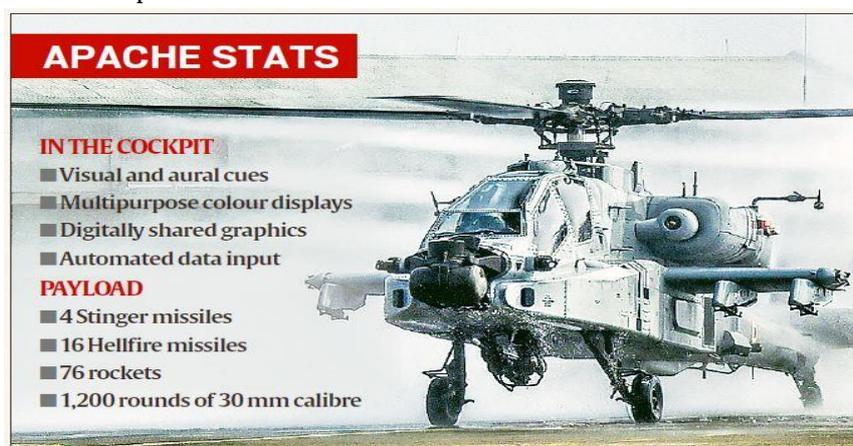


SCIENCE & TECHNOLOGY

Eight Apache attack helicopters to be inducted into IAF

The IAF will induct Apaches Boeing AH-64 Apache combat helicopters. These are US- made helicopters. AH-64E Apache is one of the leading multi-role attack helicopters globally and is flown by the US Army. The Apache's capabilities range from greater thrust, lift and joint digital operability to cognitive decision aiding and improved survivability. The Apaches are armed with stinger air-to-air missiles, Hellfire Longbow air-to-ground missiles, guns and rockets. Its features include joint digital operability, improved survivability and cognitive decision-aiding. The addition of AH-64 E (I) helicopter is a significant step towards modernization of Indian Air Force's helicopter fleet.



<https://www.thehindu.com/news/national/eight-apache-attack-helicopters-to-be-inducted-into-iaf/article29320300.ece>

Consider the following statement regarding AH-64 Apache combat helicopters.

- It is also known as 'attack helicopter' and the helicopter has been customized to suit IAF's future requirements.
- The helicopter has the capability to carry out precision attacks at standoff ranges and operate in hostile airspace with threats from ground.
- The helicopter also has the ability to transmit and receive battlefield picture through data uplinking and networking.
- All of the above

Answer-D

NASA, ESA Combine Efforts on Asteroid Impact Deflection Assessment Mission

Among all the causes that will eventually cause the extinction of life on Earth, an asteroid hit is widely acknowledged as one of the likeliest. Over the years, scientists have suggested different ways to ward off such a hit, such as blowing up the asteroid before it reaches Earth, or deflecting it off with a spacecraft. Now, scientists have embarked on a plan to test their expertise with the second of these two methods.

Asteroid Impact Deflection Assessment (AIDA): It is an ambitious double-spacecraft mission to deflect an asteroid in space, to prove the technique as a viable method of planetary defence. The mission, which includes NASA and the European Space Agency (ESA), is known as the Asteroid Impact Deflection Assessment (AIDA). The target is the smaller of two bodies in the "double Didymos asteroids" that are in orbit between Earth and Mars. Didymos is a near-Earth asteroid system. Its main body measures about 780 m across; the smaller body is a "moonlet" about 160

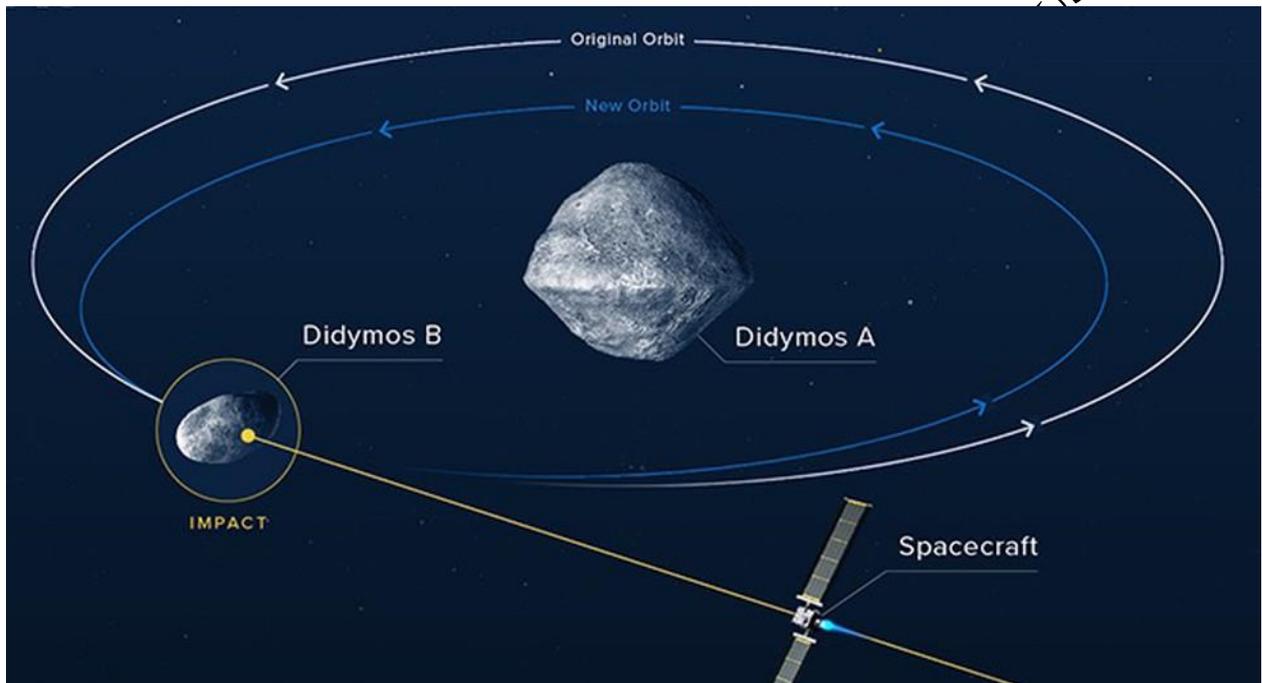
CHANDIGARH IAS ACADEMY SCO 177 TOP FLOOR SECTOR 37-C

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m in diameter. The project aims to deflect the orbit of the smaller body through an impact by one spacecraft. Then a second spacecraft will survey the crash site and gather the maximum possible data on the effect of this collision.

Tools of the mission: NASA is building the Double Asteroid Impact Test (DART) spacecraft for launch in summer 2021. It is planned to collide with the target at 6.6 km/s in September 2022. Flying along with DART will be an Italian-made miniature CubeSat, called LICIACube, to record the moment of impact. ESA's contribution is a mission called Hera, which will perform a close-up survey of the post-impact asteroid, acquiring measurements such as the asteroid's mass and detailed crater shape. Hera will also deploy a pair of CubeSats for close-up asteroid surveys and the very first radar probe of an asteroid. All this would allow researchers to model the efficiency of the collision. This can help turn this experiment into a technique that could be repeated, as needed, in the event of a real threat.



<https://gadgets.ndtv.com/science/news/asteroid-impact-deflection-assessment-nasa-esa-dart-hera-2095036>

Which asteroid is set to be hit by the National Aeronautics and Space Administration (NASA) with its spacecraft 'Double Asteroid Redirection Test (DART)'?

- (A) Apollo
- (B) Toutatis
- (C) Icarus
- (D) Didymos B

Answer-D

HISTORY

Asiatic Society of Mumbai gets first woman president

On Saturday, the Asiatic Society of Mumbai, which was started by and for white European men in the early 19th century, elected the first woman president in the 215 years of its existence. Prof Vispi Balaporia will head the institution that is a treasure house of remarkable historical artifacts.

Asiatic Society, Mumbai: The Asiatic Society is housed in the iconic Town Hall building in the colonial-era Fort precinct and has witnessed the evolution of the city's intelligentsia in its long history. It is a learned society whose activities include conducting historical research, awarding historians, and running an institute of post-graduate studies. Its library, home to over 1 lakh books, consists of rare manuscripts contributed to it by the East India Company. It has generous donations by the likes of Mountstuart Elphinstone, Jagannath Shankarsheth, Cowasji Nanangir, and Bhau Daji Lad. The library recently scrapped its referral system for membership, thus expanding access to its resources. Among the prized collections of the Society is an original copy of Dante's Divine Comedy, and coins issued by Kumaragupta (5th century), Akbar (16th century), and Shivaji (17th century). The Society offers Junior Fellowships for research and recommends scholars for the Tagore National Fellowship of the Ministry of Culture. The Governor of Maharashtra is the Society's Chief Patron.

A 200-year history; The Asiatic Society began its journey in 1804 as the Literary Society of Bombay. It was founded by Sir James Mackintosh, a Scottish colonial administrator who had a keen interest in Oriental studies. In 1826, the Literary Society became the Mumbai arm of the London-based Royal Asiatic Society of Great Britain and Ireland and came to be called the Bombay Branch of the Royal Asiatic Society (BBRAS). In its early days, membership of the Society was restricted to European "gentlemen" and the "natives" were not allowed to join until 1841. The Bombay Geographical Society and the Anthropological Society of Bombay merged with the BBRAS in 1873 and 1896 respectively. In 1954, the institution was severed from its London parent and became the Asiatic Society of Bombay. In 2002, it acquired its present name. According to the Society's website, its journal has been in publication since 1841.

Asiatic Society: The Asiatic Society was founded by civil servant Sir William Jones on 15 January 1784 in a meeting presided over by Sir William Jones, Justice of the Supreme Court of Judicature at Fort William in Calcutta. It aimed to enhance and further the cause of Oriental research. In 1832 the name was changed to "The Asiatic Society of Bengal" and again in 1936 it was renamed as "The Royal Asiatic Society of Bengal". One of the main activities of the Asiatic Society was to collect the old manuscripts of India. There was an enormous collection of Sanskrit manuscripts with the society.

<https://indianexpress.com/article/cities/mumbai/asiatic-society-of-mumbai-gets-first-woman-president-vispi-balaporia-5957647/>

Who was the founder of Asiatic Society?

- A. Sir Will Jones
- B. Raja Ram Manhan Roy
- C. Warren Hasting
- D. None of the above

Answer A

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R.Devi

Resident of Hamirpur Himachal Pradesh.

Question of the day

What are the important reasons behind economic slowdown in India? How we can address such problem. Discuss (200 Word)

You can mail your answer to our faculty directly

Mann Sir: rsmannpgi@gmail.com

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