

Expected Questions for GK – AIIMS 2018 (Part - 2) (Download PDF)

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Prof. Yashpal - Indian scientist, educator and educationist, Known for his contributions to the study of cosmic rays, Chairman of UGC from 1986 to 1991, Made Marconi Fellow in 1980 for his work at the Space Applications Centre in Ahmedabad.

Find this video at: <https://www.youtube.com/video/sbkbTRD7daw>

Expected Questions for General Knowledge Section AIIMS 2018

- In 2009, he received Kalinga Prize, awarded by UNESCO for the popularisation of science.
- In October 2011 he was also awarded the Lal Bahadur Shastri National Award for excellence in public administration, academics and management.
- Pal was honoured with the Padma Bhushan (1976) and the Padma Vibhushan (2013), the third and second highest Indian civilian honours.
- Pal received the Indira Gandhi Prize for Popularization of Science (2000) and the Meghnad Saha Medal (2006) for his outstanding contribution to science.
- The Committee to Advise on Renovation and Rejuvenation of Higher Education

Elon Musk - SpaceX

- SpaceX is a space technologies company founded by South African tech entrepreneur Elon Musk.
- Founded in 2003, SpaceX has quickly grown to become a pioneer in the development of reusable space rockets.
- SpaceX is the only private company ever to bring back a spacecraft from low-Earth orbit. This feat was first accomplished in December 2010.
- Today the company is under a \$1.6 billion (£1.2 billion) contract with NASA to supply the International Space Station (ISS) with cargo.

Falcon 9

- Falcon 9 is a family of two-stage-to-orbit medium lift launch vehicles, named for its use of nine Merlin first-stage engines, designed and manufactured by SpaceX.

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- Variants include the initial v1.0 (expendable), v1.1 (partially-reusable), and current “Full Thrust” v1.2 (partially-reusable).
- Falcon 9 is powered by rocket engines utilizing liquid oxygen (LOX) and rocket-grade kerosene (RP-1) propellants

INSPIRE

- Innovation in Science Pursuit for Inspired Research (INSPIRE) by DST - every year two lakh school children in the age-group of 10 to 15 years i. e. , 6th to 10th standards are being identified for the INSPIRE Award.
- SEATS - Scheme for Early Attraction of Talent (SEATS) aims at attracting talented youth to study science by providing INSPIRE Award, to experience the joy of innovations, of Rs. 5, 000/- to one million young learners in the age group 10 - 15 years.

Luminol

- A compound used in crime scene may combat malaria
- The compound luminol can kill the malaria parasite Plasmodium

Silvery Fish

- Researchers find world’s first warm-blooded fish
- Nearly the size of a large automobile tire, is known from oceans around the world and dwells hundreds of feet beneath the surface in chilly, dimly lit waters.

Webb Telescope

- Webb is an international project led by NASA with its partners, ESA and the Canadian Space Agency. ESA is providing the Ariane 5 as part of its scientific collaboration with NASA.
- James Webb Space Telescope will be the world’s premier infrared space observatory and the biggest astronomical space science telescope ever built, complementing the scientific discoveries of NASA’s Hubble Space Telescope

CUORE

- Cryogenic Underground Observatory for Rare Events
- It is designed to detect a neutrinoless double-beta decay from the natural decay of 988 crystals of tellurium dioxide.
- The CUORE experiment is housed underground, in the Italian National Institute for Nuclear Physics’ (INFN) Gran Sasso National Laboratories, buried deep within a mountain in central

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Italy, in order to shield it from external stimuli such as the constant bombardment of radiation from sources in the universe.

Bio-fortified maize to address 'hidden hunger'

- It contains natural variations of three genes -beta-Carotene Hydroxylase, Lycopene-eta-Cyclase and Opaque2 - required for production of high amount of vitamin A and the two essential amino acids.
- The new hybrids have 4.5 folds more vitamin A content and similar amounts of lysine and tryptophan as earlier varieties

LIGO & Gravitational Waves

Image of LIGO & Gravitational Waves

Image of The Gravitational Wave Spectrum

General Questions

- Chenani-Nashri Tunnel or Patnitop Tunnel is a road tunnel in the Indian state of Jammu and Kashmir on NH 44. It is the longest road tunnel and first tunnel in the country with a fully integrated tunnel control system.
- 9.15-kilometer Dhola Sadiya bridge or Bhupen Hazarika Setu over Lohit river – longest bridge in India - The bridge is the first permanent road connection between the northern Assam and eastern Arunachal Pradesh
- Colour of black box is orange
- First digital state of India is Kerala
- 1st Bullet Train is set to runs from Mumbai to Ahmedabad
- CEO of Google is Mr. Sundar Pichai
- Full form of ATM is Automated Teller Machine
- SC Judge Mr. A. K. Dave gave the NEET order