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KNOWVATION

# STATIC GK

# SCIENCE

# & TECHNOLOGY



(XAT, TISS-NET, CMAT, SSC, IIFT, BANKS)

Which of these is the code name for the test of India's first ever anti-satellite (ASAT) missile system is?

- (a) Mission Vinash
- (b) Mission Prahaar
- (c) Mission Shakti
- (d) Mission Destruct

**Points to Know (PTN):**

During the test the ASAT successfully destroyed a low earth orbit satellite in space by using a missile which covered a distance of 300 km to engage the target.

Which of these is the correct SI unit of measurement of electric charge?

(a) Ampere

(b) Volt

(c) Joule

(d) Coulomb

**PTN:** Other important SI units:

Intensity of sound: Decibel

Power: Watt

Pressure: Pascal

Force: Newton

Light intensity: Candela

‘Oil of Vitriol’ is the common name of which of these compounds?

- (a) Copper Sulphate
- (b) Sulphuric Acid
- (c) Sodium Bicarbonate
- (d) Calcium Hydroxide

**PTN:**

Copper Sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ ) : Blue Vitriol

Sodium bicarbonate ( $\text{NaHCO}_3$ ) : Baking Soda

Calcium Hydroxide ( $\text{Ca}(\text{OH})_2$ ) : Slaked lime

Mercury (Hg): Quicksilver

Which of these is the first state in India to reserve a government job for HIV positive candidates?

- (a) Maharashtra
- (b) Kerala
- (c) Punjab
- (d) Assam

**PTN:**

Acquired immunodeficiency syndrome (AIDS) is a chronic, potentially life-threatening condition caused by the HIV (Human immunodeficiency virus).

Chandrayaan-2 spacecraft was launched on its mission to the moon by which of these vehicles?

- (a) GSLV FII
- (b) GSLV MkIII
- (c) PSLV CII
- (d) PSLV C45

**PTN:**

The Geosynchronous Satellite Launch Vehicle Mark III (GSLV Mk III) is a three-stage medium-lift launch vehicle developed by the ISRO. Primarily designed to launch communication satellites into geostationary orbit.

Oxygen in our blood is transported to different parts of the body by a protein named \_\_\_\_\_.

- (a) Lipids
- (b) Collagen
- (c) Haemoglobin
- (d) Keratin

**PTN:**

Collagen is the most abundant protein in the human body, found in the bones, muscles, skin, and tendons.

Keratin is the type of protein that makes up your hair, skin, and nails.

The process by which energy is continuously generated in the Sun is:

- (a) Nuclear Fission
- (b) Radioactivity
- (c) Nuclear Fusion
- (d) Nuclear Diffusion

**PTN:**

Fission is the splitting of a heavy, unstable nucleus into two lighter nuclei, and fusion is the process where two light nuclei combine together releasing vast amounts of energy.



Which among the following are the primary greenhouse gases in Earth's atmosphere?

- (a) Carbon-di-oxide ( $\text{CO}_2$ )
- (b) Water vapours ( $\text{H}_2\text{O}$ )
- (c) Hydrogen Sulphide ( $\text{H}_2\text{S}$ )
- (d) Both (a) and (b)

**PTN:**

Greenhouse gases absorb this energy, thereby allowing less heat to escape back to space, and 'trapping' it in the lower atmosphere.

This year's Nobel Prize in Chemistry is given for which of the following development?

- (a) For the development of Lithium-ion Batteries
- (b) For the development of a new protein
- (c) For the development of high-resolution cryoelectronic microscopy
- (d) For the discovery of new organic compounds curing cancer

**PTN:**

The recipients of the Nobel Prize in Chemistry 2019 are John B. Goodenough, M. Stanley Whittingham and Akira Yoshino for the development of lithium-ion batteries.

Which of the following technologies are used to locate submerged objects under water?

- (a) Laser
- (b) Radar
- (c) Barometer
- (d) Sonar

**PTN:**

Sonar is a technique that uses sound propagation to navigate, communicate with or detect objects on or under the surface of the water, such as other vessels.

An species of plant which can grow in dry conditions with little or no water is called:

- (a) Xerophyte
- (b) Helophyte
- (c) Lithophyte
- (d) Hydrophyte

**PTN:**

Ex. Cactus, Pineapple, etc.

The fatal Zika virus was named after the Zika Forest. Zika Forest is present in which of these countries?

- (a) Egypt
- (b) Nigeria
- (c) Uganda
- (d) Ethiopia

**PTN:**

The Zika Forest, is a tropical forest near Entebbe in Uganda. Here, the Zika virus was first detected 70 years ago.

Which among the following countries has developed the world's first floating nuclear power plant?

(a) USA

(b) Russia

(c) China

(d) India

**PTN:**

The world's first floating nuclear reactor Akademik Lomonosov is docked at its permanent location in Pevek, in Russia's Far East.

Which of the following is the 1<sup>st</sup> UN organisation to hold and make transactions in cryptocurrency?

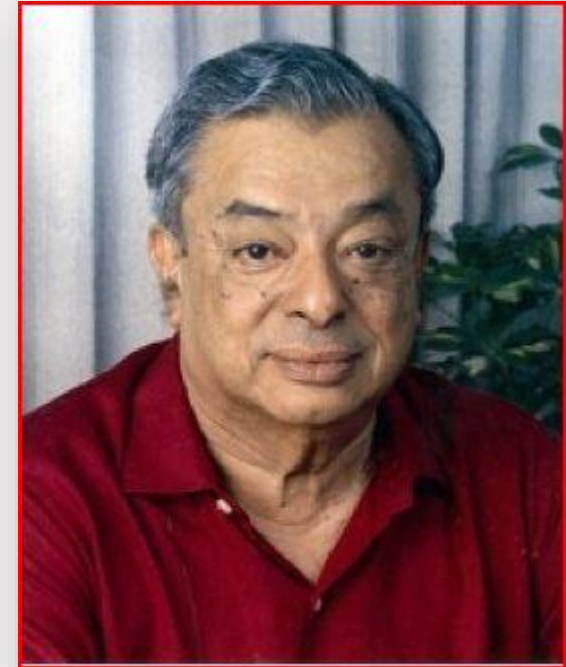
- (a) World Health Organisation (WHO)
- (b) International Labour Organisation (ILO)
- (c) UN Children's Fund (UNICEF)
- (d) None of these

**PTN:**

A cryptocurrency (or crypto currency) is a digital asset designed to work as a medium of exchange that uses strong cryptography to secure financial transactions. Ex. Bitcoin, Libra, Monero, etc.

Who among the following persons is regarded as the 'Father of the White Revolution' in India?

- (a) M.S. Swaminathan
- (b) Shyam Benegal
- (c) E. Shreedharan
- (d) Verghese Kurien



Source: amul.com

**PTN:**

M.S. Swaminathan – Father of Green Revolution  
E. Shreedharan – Metro Man



Which of the following is the most abundant metal in the Earth's crust?

- (a) Zinc
- (b) Sodium
- (c) Aluminium
- (d) Iron

**PTN:**

Bauxite ( $\text{Al}_2\text{O}_3$ ) is the primary ore of Aluminium.

Who among the following scientists is responsible for the discovery of neutron?

- (a) James Chadwick
- (b) J. J. Thomson
- (c) Niels Bohr
- (d) Ernest Rutherford

**PTN:**

J. J. Thomson – Electrons

Niels Bohr – the first to discover that electrons travel in separate orbits around the nucleus.

Ernest Rutherford – Nucleus

Which among the following creatures is linked with the pollution of the Moon?

- (a) Water bears
- (b) Tardigrades
- (c) Both a and b
- (d) None

**PTN:**

Tardigrades - often called water bears - are creatures under a millimetre long that can survive being heated to 150C and frozen to almost absolute zero.

According to recent development and research, these tiny animals are polluting the moon that is they started reproducing.

Which among the following is the basic structural unit of a kidney, which works on the principle of ultrafiltration?

- (a) Neuron
- (b) Nephron
- (c) Granulocyte
- (d) Basophills

**PTN:**

A nephron is used separate to water, ions and small molecules from the blood, filter out wastes and toxins, and return needed molecules to the blood.

The deficiency of which of the following vitamins/minerals leads to the disease Goiter?

(a) Vitamin B

(b) Calcium

(c) Iodine

(d) Iron

**PTN:**

Deficiency of:

Iron – Anemia

Calcium – Brittle bones

Vitamin A – Night blindness

Amalgam is a term used for an alloy of a metal with:

- (a) Mercury
- (b) Gold
- (c) Lead
- (d) Aluminium

**PTN:**

An amalgam is an alloy of mercury with another metal.

Liquefied Petroleum Gas (LPG) is mainly composed of which of the following 2 main hydrocarbons?

- (a) Methane and Propane
- (b) Butane and Propane
- (c) Ethane and Methane
- (d) Methane and Butane

**PTN:**

Natural gas is mainly composed of the methane and ethane.

Liquefied Petroleum Gas (LPG) is mainly composed of which of the following 2 main hydrocarbons?

- (a) Methane and Propane
- (b) Butane and Propane
- (c) Ethane and Methane
- (d) Methane and Butane

**PTN:**

Natural gas is mainly composed of the methane and ethane.



1. Optical fibre works on which principle? Name it.
2. What are isotopes and isotones? How many naturally occurring isotopes does Carbon have?
3. Which blood group is called “Universal recipient”?
4. What is the name of highest and the lowest grade of coal?

### **Assignment Questions!**

# Thanks a lot for watching!

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