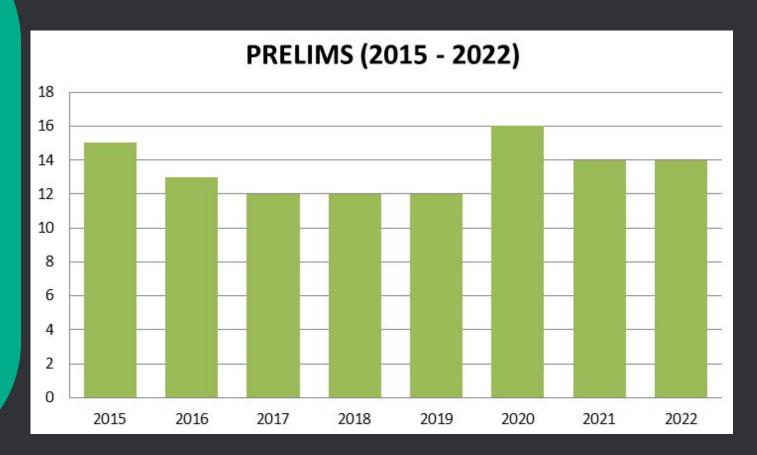
Science & Technology

THUSHAR ASOK

TREND ANALYSIS



SYLLABUS

• General Science

FOCUS AREAS

- Space Technology
- Biotechnology
- Energy
- IT & Communication
- Al & Robotics
- Nanotechnology
- Defence
- Diseases
- General Science

SPACE TECHNOLOGY

- Basics
- Current Developments

The experiment will employ a trio of spacecraft flying in formation in the shape of an equilateral triangle that has sides one million kilometres long, with lasers shining between the craft." The experiment in question refers to

Voyager - 2

New Horizons

LISA Pathfinder

Evolved LISA

BIOTECHNOLOGY

- Conceptual
- Basics
- Current Developments

In the context of recent advances in human reproductive technology, "Pronuclear Transfer" is used for

Fertilization of egg in vitro by the donor sperm

Genetic modification of sperm-producing cells

Development of stem cells into functional embryos

Prevention of mitochondrial diseases in offspring

What is the application of Somatic Cell Nuclear Transfer Technology?

Production of biolarvicides

Manufacture of biodegradable plastics

Reproductive cloning of animals

Production of organisms free of diseases

ENERGY

- Solar
- Wind
- Biofuel
- Hydrogen fuel
- Nuclear energy
- Fuel Cell

IT & COMMUNICATION

- Current Developments
- Themes LiFi , Visible light communication ,
 LTE & VolTE

AI & ROBOTICS

Current Developments

NANOTECHNOLOGY

- Nanomaterials
- Application of Nanomaterials
- Themes Graphene , Carbon Nanotubes

DEFENCE

- Current developments
- Themes Agni 4, INS Astradharini,
 Fractional Orbital Bombardment System

DISEASES

- Current developments
- Themes Hereditary diseases, Zika virus disease, H1N1

GENERAL SCIENCE

Basics

SOURCES

- NCERT
- Newspaper
- Websites ISRO, NASA

THINGS TO REMEMBER

- Static area of current affairs
- Major scientific events
- Government Initiatives
- Layman technologies
- Artificial Intelligence

THANK YOU