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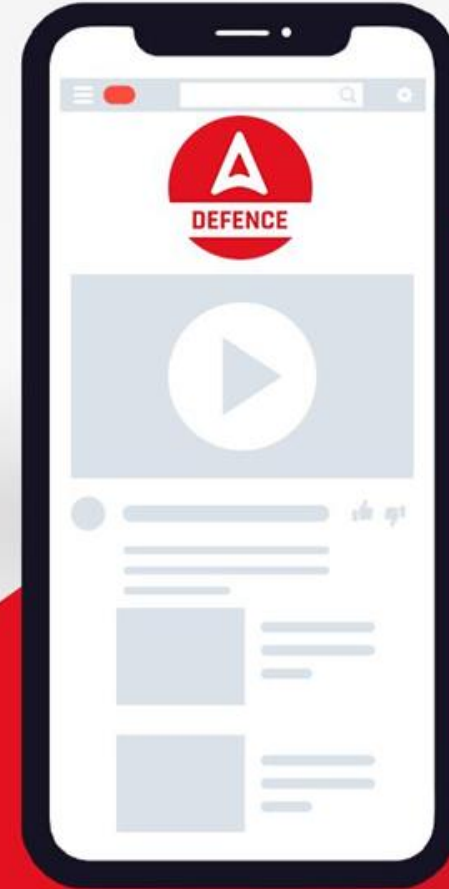


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SCIENCE

Science ... Ab Hogi Asaan

BY NIHARIKA RATHORE

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CDS 2023 Science

Most important topics



CDS

PHYSICS

1. Mechanics

- Physical Quantity
- Dimensions
- Kinematics
- Force
- Work, Energy and Power
- Collision
- Moment of Inertia
- Gravitation
- Planets
- Satellite

2. Properties of Matter

- Matter
- Solid
- Bernoulli's Theorem

3. Oscillations and Waves

- Periodic Motion
- Fluid
- Wave
- Sound
- Sonar

5. Optics

- Light
- Lenses
- Mirrors

6. Electricity and Magnetism

- Electricity
- Magnetism

7. Modern Physics

- Atom
- Universe
- Electronics

CHEMISTRY

1. General Chemistry

- Matter
- Liquid
- Gas
- Solid
- Substances
- Elements Compounds
- Mixtures • Solution
- Colloids Around Us

2. Atomic Structure and Chemical Bonding

- Atoms and Molecules
- Atomic Models Planck's Quantum Theory
- Shell
- Quantum Numbers Paul's Exclusion Principle
- Radioactivity
- Soddy Fajan's Group Displacement Law
- Applications of Radioactivity and Radioisotopes
- Nuclear Hazards and Safety Measures
- Chemical Bonding

3. Classification of Elements

- Evolution of Periodic Table
- Hydrogen

4. Chemical Reactions and Equations

- Physical and Chemical Change
- Chemical Reactions Oxidation and Reduction
- Electrolysis Batteries Enzyme Catalysis

5. Elements and Compounds

- Metals Non-Metals Acid and Base Salts
- Metallurgy
- Metalloids

6. Organic Chemistry

- Organic Compounds
- Bioactive Compounds
- Coal
- Petroleum
- Fuels

7. Environmental Chemistry

- Environment
- Atmospheric Pollution
- Water Pollution
- Soil Pollution

8. Chemistry In Everyday Life

- **Synthetic Materials**
- **Chemicals in Agriculture**
- **Chemicals in Medicines**
- **Chemicals in Food**
- **Fire Extinguisher**
- **Chemicals in Cosmetics**

BIOLOGY

1. Cell Biology:

- An Introduction
- The Cell Biomolecules

2. Biological Classification

- Classification of Living
- Organisms
- Systems of Classification
- Viral Diseases of Human Beings

3. Structural Organisation of Plants and Animals

- **Morphology of Plants**
- **Anatomy of Plants Wood**
- **Anatomy of Animals**
- **Some Specialised Tissue Structures of Animals**

4. Human Physiology

- **Nutrition in Animals**
- **Digestion in Humans**
- **Respiration in Humans**
- **Transportation in Humans**
- **Excretion in Humans Skeletal System**
- **Neural Coordination in Humans**
- **Sense Organs**
- **Chemical coordination by Endocrine System**

5. Plant Physiology

- **Transportation in Plants**
- **Respiration in Plants**
- **Nutrition in Plants**
- **Excretion in Plants**
- **Mineral Nutrition in Plants**
- **Plants Growth and Development**

6. Reproduction in Plants and Animals

- (Humans) Reproduction
- Reproductive Health
- Sexually Transmitted Diseases (STDs)

7. Genetics and Evolution

- Genetics
- Sex Determination in Humans
- Gene and Gene Concept
- Evolution

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