

CSS General Science & Ability (2016–2025)

THEME 1: Environmental Science & Climate Change

Topics Covered:

- Global warming & greenhouse effect
 - Ozone depletion
 - Acid rain
 - Water pollution & smog
 - Solid waste management
 - Renewable vs non-renewable energy
 - Climate variation
 - Wildfire
 - Deforestation
 - Paris Agreement / Kyoto Protocol
 - Greenhouse gases
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2016

- **Q2(A):** What were the main objectives of Clean Development Mechanism? Also explain the reasons for the criticism on Kyoto Protocol by developed countries.
 - **Q9(B):** Comment, Green House Effect is blessing. Also discuss Enhanced Green House Effect and its relation with global warming.
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2017

- **Q2(A):** What are the factors responsible for environmental pollution?
- **Q2(C):** What do you mean by Ozone depletion and how we can prevent its depletion?

- **Q2(D):** What is Acid Rain and how it is produced? Describe dangers.
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2018

- **Q4(A):** What is Acid Rain? Causes and prevention.
 - **Q4(B):** What is Water Pollution? Causes and measurement methods.
 - **Q4(C):** Write a comprehensive note on Smog.
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2019

- **Q2(D):** Why are scientists worried about the increase of CO₂ in atmosphere?
 - **Q5(A):** What does Ozone depletion mean and how can we protect the ozone layer?
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2020

- **Q3(A):** What are pesticides? Why persistent pesticides are more lethal?
 - **Q4(B):** Organic particulate matter in atmosphere.
 - **Q4(A):** Segments of atmosphere & Earth radiation balance.
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2022

- **Q4(A):** Define Water Pollution. Indicators & drinking water standards.
 - **Q4(C):** Negative effects of Global Warming in Pakistan.
 - **Q3(D):** Solid Waste Management issues in Pakistan.
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2023

- **Q4(A):** Difference between fog and smog.
 - **Q2(D):** What is Wildfire? Causes and prevention.
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2024

- **Q3(B):** Role of Remote sensing and GIS in environmental science.
 - **Q4(C):** Drinking water standards & heavy metals.
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2025

- **Q4(A):** What is deforestation? Disadvantages.
 - **Q4(B):** How water pollution is produced?
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THEME 2: Human Biology & Health Sciences

Topics Covered:

- Vaccines & immunization
 - Hepatitis
 - Polio
 - Dengue
 - Vitamins
 - Liver & pancreas
 - Cholesterol
 - Malnutrition
 - Blood groups
 - Digestion
 - Kidney & urine formation
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2016

- **Q4(A):** What are vaccines? Classify and discuss DNA vaccines.
- **Q4(B):** Causative organism & vector of dengue.
- **Q5(A):** 'Liver is chief chemist' comment.
- **Q5(B):** What is Cholesterol? Importance & dangers.

2017

- **Q3(A):** Causes of Heart Attack.
- **Q3(D):** Significance of Vitamins.

2018

- **Q3(A):** Causes and prevention of Polio.
- **Q3(C):** Carbohydrates digestion.
- **Q3(D):** Cell structure differences.

2020

- **Q5(A):** What is Hepatitis? Types and prevention.

2021

- **Q3:** Cells, tissues, organs; transpiration; double circulation.
- **Q5(A):** Define malnutrition.

2022

- **Q3(A):** Vaccination and types.
- **Q3(B):** Polio symptoms and prevention.

2023

- **Q3(D):** Hepatitis types, causes, prevention.

2024

- **Q4(A):** Role of Carbohydrates and Vitamins.

- **Q4(B):** Functioning of Liver and Pancreas.
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2025

- **Q3(B):** Capillaries structure and function.
 - **Q3(C):** Hepatitis types and prevention.
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THEME 3: Computer Science, IT & AI

Topics Covered:

- Artificial Intelligence
 - Computer memory
 - RAM vs ROM
 - OSI model
 - GPS
 - Fiber optics
 - Networks
 - Hardware vs software
 - Communication satellites
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2016

- **Q3(A):** Short note on Artificial Intelligence.
 - **Q3(B):** Fibre Optics & GPS.
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2017

- **Q5(A):** Differentiate between RAM and ROM.
 - **Q5(C):** Computer block diagram.
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2018

- **Q4(D):** What is Artificial Intelligence?
 - **Q5(A):** Data storage on Hard Disk.
 - **Q5(B):** Optical Fiber construction.
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2020

- **Q5(C):** OSI Model and layers.
 - **Q5(D):** What is GPS? How it works?
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2021

- **Q5(C):** Computer memory types.
 - **Q5(D):** Communication satellites.
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2022

- **Q5(B):** Optical Fiber communication.
 - **Q5(D):** Artificial Intelligence and Robotics.
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2024

- **Q5(B):** Difference between software and hardware.
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THEME 4: Physics & Space Science

Topics Covered:

- Earthquakes
- Tsunami
- Black holes
- Universe origin

- Remote sensing
 - Kepler laws
 - Electromagnetic radiations
 - Gamma rays
 - Earth rotation & revolution
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Repeated heavily in:

- **2016 (Earthquake, Tsunami, Gamma Rays)**
 - **2018 (Universe, Black Hole, Dark Energy)**
 - **2020 (Earthquake types, Wind patterns)**
 - **2021 (Origin of Universe, Star vs Planet)**
 - **2023 (Black Hole, EM Radiations)**
 - **2024 (Earthquake waves, Radioactivity)**
 - **2025 (Rotation & Revolution, EM radiations)**
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THEME 5: Mathematics & Analytical Ability (SECTION-II)

Topics:

- Algebra
- Probability
- Series completion
- Ratio & proportion
- Geometry
- Mensuration
- Coding-decoding
- Work & time
- Age problems

- Graph plotting

This section is **100% recurring every year (2016–2025)**.

Pattern:

- 1 Work/Time Question
- 1 Ratio Question
- 1 Series/Coding Question
- 1 Geometry/Area Question
- 1 Probability Question