
CSS General Science & Ability (GSA) Syllabus for 2022 & onwards

Here, you will have the subject of General Science & Ability (GSA) Syllabus of CSS 2022 and onwards.

CSS GSA Syllabus 2022 will have the following main categories which are subdivided into its parts.

- I. Physical Sciences
- II. Biological Sciences.
- III. Environmental Science.
- IV. Food Science.
- V. Information Technology.
- VI. Quantitative Ability/Reasoning.
- VII. Logical Reasoning and Analytical Reasoning/Ability
- VIII. Mental Abilities

Are ready for?

- [Online Quiz in Solved Paper General Science and Ability GSA 2019](#)
- [Quiz in CSS Solved Paper General Science and Ability GSA 2020](#)



- [General Science And Ability Solved MCQs of CSS 2009](#)

[CSS General Science & Ability \(GSA\) Syllabus for 2022 & onwards](#)

Part - I (General Science) 60 Marks

I. Physical Sciences

- **Constituents and Structure:-** Universe, Galaxy, Light Year, Solar System, Sun, Earth, Astronomical System of Units.
- **Process of Nature:-** Solar and Lunar Eclipses, Rotation and Revolution, Weather Variables (Global Temperature, Pressure, Circulation, Precipitation, Humidity) and Weather Variations.
- **Natural Hazards and Disasters:-** Earth Quake, Volcanic Eruption, Tsunami, Floods, Avalanche, Travelling Cyclone (Tropical Cyclone, Middle Latitude Cyclone, and Tornadoes), Drought, Wildfire, Urban Fire. Disaster Risk Management.
- **Energy Resources:-** Sources of Energy (Renewable i.e. LED Energy, Solar Energy, Wind Energy and Non-Renewable Energy conservation and its sustainable use.
- **Atomic Structure**, Chemical Bonding, Electromagnetic Radiations.
- **Modern Materials/Chemicals:-** Ceramics, Plastics, Semiconductors. Antibiotics, Vaccines, Fertilizers, Pesticides.

II. Biological Sciences

- **The Basis of Life :-** Cell Structures and Functions (Subcellular Organelles such as Nucleus, Mitochondria and Ribosomes).
- **Biomolecules:-** Proteins, Lipids, Carbohydrates and Enzymes.
- **Plant and Animal Kingdom:-** A brief survey of plant and animal kingdom to pinpoint similarities and diversities in nature.
- **A Brief Account of Human Physiology.**
- **Common Diseases and Epidemics:-** Polio, Diarrhea, Malaria, Hepatitis, Dengue their Causes and Prevention.
- **New Model Concept of Producing BIO Fuel Method**

III. Environmental Science

- **Environment:-** The Atmosphere (Layered Structure and Composition), Hydrosphere (Water Cycle, Major Water Compartments), Biosphere (Major Biomes) and Lithosphere (Minerals and Rocks, Rock Types, Plate Tectonics).
- **Atmospheric Pollution:-** Types, Sources, Causes and effects of major air pollutants (CO_x, Particulate Matter, NO_x, SO_x, Tropospheric Ozone, Volatile Organic Compounds, Dioxins). Regional and Global air pollution issues (Acid-rain, Ozone Depletion, Greenhouse Effect and Global Warming). International agreements on air pollution control (Montreal Protocol and Kyoto Protocol).
- **Water Pollution:-** Types, sources, causes and effects of major water pollutants (Synthetic Organic Chemicals, Oxygen Demanding Wastes, Plant Nutrients, Thermal Pollution, Infectious Agents, Sediments, Radioactivity, Heavy Metals and Acids). Drinking water quality and standards.
- **Land Pollution:-** Solid waste management and disposal.
- Role of Remote Sensing and GIS in Environmental Science.
- Population Planning.

IV. Food Science

- **Concept of Balance Diet:-** Vitamins, Carbohydrates, Protein, Fats and oil, Minerals, Fiber.
- **Quality of Food:-** Bioavailability of Nutrients, Appearance, Texture, Flavor, Quality of Packed and Frozen Food, Food Additives, Preservatives and Antioxidants
- **Food Deterioration and its Control:-** Causes of Food Deterioration, Adulteration, Food Preservation.

V. Information Technology

- **Computer (Hardware & Software Fundamentals);** I/O Processing and data storage, Networking & Internet Standards, Application and business Software, Social Media Websites. Information Systems. Fundamentals of artificial intelligence.
- **Telecommunications:-** Basics of Wireless Communication (Mobile, Satellite, Surveillance and GPS and Fiber Optic etc

Part - II (General Ability) 40 Marks

VI. Quantitative Ability/Reasoning

- Basic Mathematical Skills.
- Concepts and ability to reasons quantitatively and solve problems in a quantitative setting.
- Basic Arithmetic, Algebra and Geometry (Average, Ratios, Rates, Percentage, Angles, Triangles, Sets, Remainders, Equations, Symbols, Rounding of Numbers
- Random Sampling

VII. Logical Reasoning and Analytical Reasoning/Ability

- **Logical Reasoning** includes the process of using a rational, systematic series of steps based on sound mathematical procedures and given statements to arrive at a conclusion.
- **Analytical Reasoning/Ability** includes visualizing, articulating and solving both complex and uncomplicated problems and concepts and making decisions that are sensible based on available information, including demonstration of the ability to apply logical thinking to gathering and analyzing information.

VIII. Mental Abilities

- Mental Abilities Scales that measure specific constructs such as the verbal, mechanical, numerical, and social ability