

# **Syllabus for Atmospheric Science (SCQP29)**

## Atmospheric Science (SCQP29)

**Note:**

- i. *The Question Paper will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Questions will be Bilingual (English/Hindi).*

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**Physics:**

Properties of Matter, Equations of motion, Gravitation, Keplers laws, Heat and Thermodynamics, Electrodynamics, Optics, Modern Physics and Laws of Radiation.

**Mathematics:**

Ordinary differential equation and their solution, determinants and matrices (Fundamentals), Fourier series, Laplace Transform, Conic Section, Set Theory and Complex Variables.

**Statistics:**

Measures of central tendency, dispersion. Significance tests and linear correlation.

**Computer Science:**

Fundamentals of Computer, computer architecture, operating systems, Database Management System, Foundation of programming.

**Earth & Environment:**

Earth Interior, Distribution of oceans and continents, composition and structure of atmosphere, world climate and climate change, physical environment, Environmental Pollution and its abatement, Environmental Awareness.