











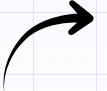
Last Moment Exam Cheat Sheet

Atoms And Molecules

- **Maharishi Kanad** proposed the concept of **Parmanu**.
- **Greek philosophers** called indivisible particles **atoms**.
- **Law of Conservation of Mass** - mass can neither be created nor destroyed.
- **Law of Constant Proportion** - elements combine in fixed ratio by mass.
- **Dalton** proposed **Atomic Theory**.
- **Isotopes**: same atomic number, different mass number.
- **Isobars**: same mass number, different atomic number.
- **Carbon-12** is the standard for atomic mass unit.
- **1 u = 1/12th mass of Carbon-12 atom**.
- Molecule is the smallest particle capable of **independent existence**.
- **Atomicity** = number of atoms in a molecule.
- Ion is a **charged particle**.
- **NH₄⁺** is a polyatomic ion.
- Valency is the **combining capacity** of an element.
- Molecular mass is obtained by **adding atomic masses**.
- **Avogadro Number** = 6.022×10^{23} .
- **1 mole** contains **6.022×10^{23} particles**.
- **Gram atomic mass** = atomic mass expressed in grams.
- **Gram molecular mass** = molecular mass expressed in grams.

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 ENGLISH Noun, Pronoun, Verb, Tense, Preposition, Subject-verb agreement and adverbs Check Now →	 PHYSICS Mechanics, Thermodynamics, Optics and Modern Physics Concepts for defence exams Check Now →	 CHEMISTRY Physical, Organic, Inorganic Chemistry and Environmental Science topics Check Now →	 BIOLOGY Cell, Tissues, Disease, Photosynthesis, Reproduction, Nervous System Check Now →	 MATHEMATICS Algebra, Calculus, Trigonometry, Coordinate geometry, Probability and statistics Check Now →
 HISTORY Ancient, Medieval, Modern Indian History, Freedom Struggle Check Now →	 GEOGRAPHY Physical Geography, Indian Geography, Mapping, Climate Check Now →	 POLITY Constitution, Fundamental Rights, Parliament, Judiciary Check Now →	 ECONOMICS Indian Economy, Budget, Inflation, Banking, Fiscal Policy Check Now →	 EVS Environment, Ecology, Biodiversity, Climate Change, Sustainable Development Check Now →

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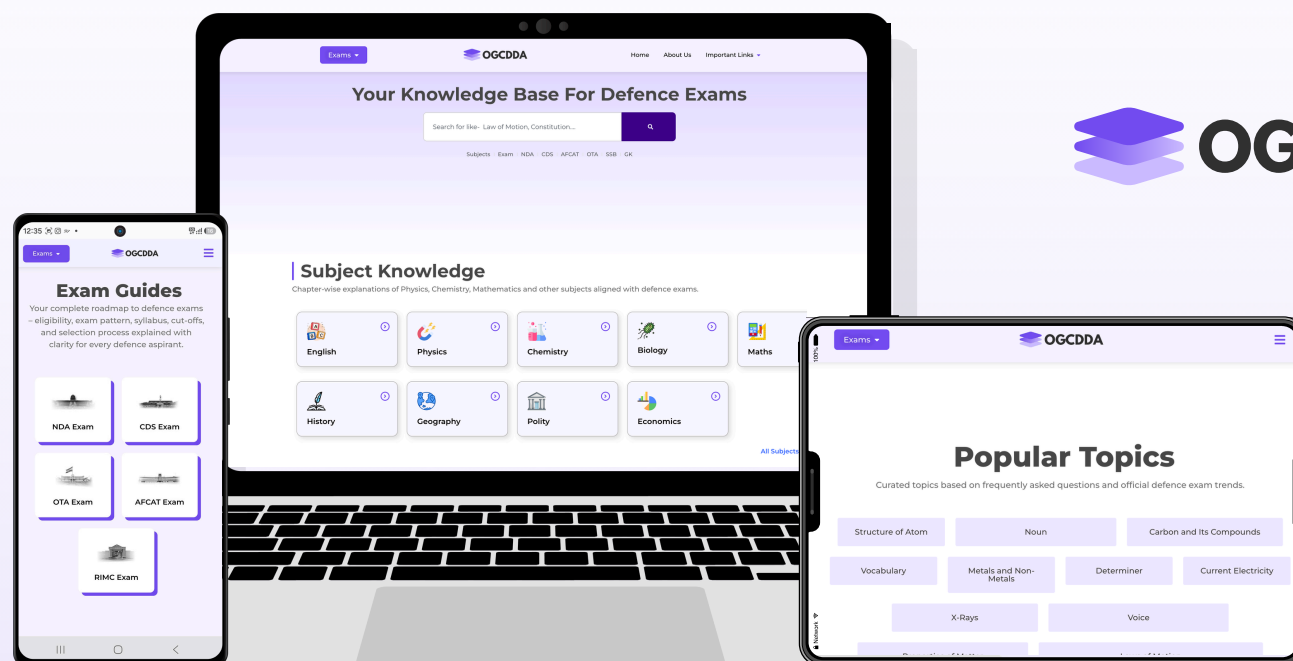
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The image displays the OGCDDA website interface across three devices: a laptop, a tablet, and a smartphone. The laptop screen shows the main page with the heading "Your Knowledge Base For Defence Exams" and a search bar. Below the search bar, there is a "Subject Knowledge" section with a grid of subject buttons: English, Physics, Chemistry, Biology, Maths, History, Geography, Polity, and Economics. The tablet screen shows the "Exam Guides" section, which provides a complete roadmap to defence exams, including eligibility, exam pattern, syllabus, cut-offs, and selection process. The smartphone screen shows the "Popular Topics" section, which lists curated topics based on frequently asked questions and official defence exam trends, including Structure of Atom, Noun, Carbon and Its Compounds, Vocabulary, Metals and Non-Metals, Determiner, Current Electricity, X-Rays, and Voice. The OGCDDA logo is visible in the top right corner of the laptop screen.