

# Direct formulas for physics for competitive exam

**Direct formulas for physics for competitive exam** Preparing for competitive exams such as UPSC, SSC, IIT-JEE, NEET, or other engineering and medical entrance tests requires a thorough understanding of key physics concepts and their formulas. Having quick access to direct formulas can save precious time during exams and boost your confidence. This comprehensive guide provides a well-organized collection of essential physics formulas, categorized for easy reference and effective revision.

## 1. Mechanics

### 1.1 Kinematic Equations

1.  $v = u + at$
2.  $s = ut + \frac{1}{2}at^2$
3.  $v^2 = u^2 + 2as$

Where:

1.  $u$  = initial velocity
2.  $v$  = final velocity
3.  $a$  = acceleration
4.  $s$  = displacement
5.  $t$  = time

### 1.2 Laws of Motion

1. First Law: An object remains in rest or uniform motion unless acted upon by an external force.
2. Second Law:  $F = ma$
3. Third Law: For every action, there is an equal and opposite reaction.

### 1.3 Work, Power, Energy

1. Work done:  $W = Fd \cos \theta$
2. Kinetic energy:  $KE = \frac{1}{2}mv^2$
3. Potential energy:  $PE = mgh$
4. Power:  $P = W / t$

### 1.4 Law of Conservation of Mechanical Energy

1. Total energy at any point =  $KE + PE$  (constant in ideal conditions)

## 2. Gravitation

### 2.1 Universal Law of Gravitation

1.  $F = G (m_1 m_2) / r^2$

Where:

1.  $G$  = gravitational constant =  $6.674 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$
2.  $m_1, m_2$  = masses of objects
3.  $r$  = distance between centers

### 2.2 Acceleration Due to Gravity

1.  $g = GM / r^2$

Where:

1.  $M$  = mass of the Earth
2.  $r$  = radius of the Earth

### 2.3 Kepler's Laws (Simplified)

1. Planets orbit the Sun in elliptical paths with the Sun at one focus.
2. Line connecting planet and Sun sweeps equal areas in equal times.
3.  $T^2 \propto r^3$  (orbital period and radius relation)

## 3. Properties of Matter

### 3.1 Stress and Strain

1. Stress:  $\sigma = F / A$
2. Strain:  $\varepsilon = \Delta l / l$

### 3.2 Young's Modulus

1.  $E = \sigma / \varepsilon = (F / A) / (\Delta l / l)$

### 3.3 Bulk Modulus and Modulus of Rigidity

1. Bulk modulus,  $K = -V \Delta P / \Delta V$
2. Modulus of rigidity,  $G = \tau / \gamma$

## 4. Thermodynamics

## 4.1 Ideal Gas Law

1.  $PV = nRT$

Where:

1.  $P$  = pressure
2.  $V$  = volume
3.  $n$  = number of moles
4.  $R$  = universal gas constant =  $8.314 \text{ J/mol K}$
5.  $T$  = temperature in Kelvin

## 4.2 Specific Heats

1. For constant volume:  $Q = n C_v \Delta T$
2. For constant pressure:  $Q = n C_p \Delta T$

## 4.3 First Law of Thermodynamics

1.  $\Delta Q = \Delta U + W$

Where:

1.  $\Delta Q$  = heat added
2.  $\Delta U$  = change in internal energy
3.  $W$  = work done

## 5. Oscillations and Waves

### 5.1 Simple Harmonic Motion (SHM)

1. Displacement:  $x = A \sin \omega t$
2. Velocity:  $v = A \omega \cos \omega t$
3. Acceleration:  $a = -A \omega^2 \sin \omega t$

Where:

1.  $A$  = amplitude
2.  $\omega$  = angular frequency =  $2\pi / T$
3.  $T$  = time period

### 5.2 Wave Speed

1.  $v = \lambda / T = \lambda \omega / 2\pi$

Where:

1.  $\lambda$  = wavelength
2.  $T$  = period

## 6. Optics

### 6.1 Reflection and Refraction

1. Angle of incidence = angle of reflection
2. Refractive index:  $n = \sin i / \sin r$

### 6.2 Lens Formula

1.  $1/f = 1/v - 1/u$

Where:

1.  $f$  = focal length
2.  $v$  = image distance
3.  $u$  = object distance

### 6.3 Magnification

1.  $m = v/u = h'/h$

## 7. Electricity and Magnetism

### 7.1 Coulomb's Law

1.  $F = k |q_1 q_2| / r^2$

Where:

1.  $k$  = Coulomb's constant =  $9 \times 10^9 \text{ Nm}^2/\text{C}^2$

### 7.2 Ohm's Law

1.  $V = IR$

### 7.3 Power and Energy in Electrical Circuits

1. Power:  $P = VI = I^2 R = V^2 / R$

### 7.4 Magnetic Force on a Moving Charge

1.  $F = q v B \sin \theta$

Where:

1.  $q$  = charge
2.  $v$  = velocity
3.  $B$  = magnetic flux density

4.  $\theta$  = angle between  $\mathbf{v}$  and  $\mathbf{B}$

## 8. Modern Physics

### 8.1 Photoelectric Equation

1. KE of ejected electron:  $KE = hf - \phi$

Where:

1.  $h$  = Planck's constant =  $6.626 \times 10^{-34}$  Js
2.  $f$  = frequency of incident light
3.  $\phi$  = work function of metal

### 8.2 Radioactive Decay Law

1.  $N = N_0 e^{(-\lambda t)}$

Where:

1.  $N$  = remaining nuclei after time  $t$
2.  $N_0$  = initial nuclei
3.  $\lambda$  = decay constant

### 8.3 Einstein's Mass-Energy Equivalence

1.  $E = mc^2$

## Conclusion

Having a ready reckoner of physics formulas is vital for excelling in competitive exams. While memorizing these formulas is important, understanding their derivations and applications will help you solve complex problems efficiently. Regular revision, practicing numerical problems, and understanding the concepts behind these formulas will ensure you perform confidently in your exams. Keep this guide handy as a quick reference and enhance your preparation strategy with organized, easy-to-access physics formulas.

**Direct Formulas for Physics for Competitive Exams: A Comprehensive Guide** In the realm of competitive exams like IIT-JEE, NEET, UPSC, and other engineering or medical entrance tests, Physics often emerges as a subject where quick recall and application of formulas can make the difference between success and failure. Mastering direct formulas is crucial for solving numerical problems efficiently and accurately under exam conditions. This guide aims to provide a detailed, organized, and comprehensive overview of essential physics formulas, structured to enhance your understanding and retention.

# Importance of Knowing Physics Formulas

- Time-Saving: Direct formulas eliminate the need for lengthy derivations during exams, enabling quick problem-solving. - Accuracy: Reduces chances of calculation errors by relying on well-known formulas. - Conceptual Clarity: Understanding the formulas deepens conceptual grasp, aiding in problem-solving beyond mere memorization. - Preparation Strategy: A well-organized formula sheet is an invaluable revision tool before exams.

## Categories of Physics Formulas for Competitive Exams

Physics formulas can be broadly classified into the following categories: 1. Kinematics 2. Laws of Motion and Dynamics 3. Work, Energy, and Power 4. Rotational Motion 5. Gravitation 6. Properties of Matter 7. Fluid Mechanics 8. Thermodynamics 9. Oscillations and Waves 10. Electrostatics 11. Current Electricity 12. Magnetism and Magnetic Effects 13. Electromagnetic Induction and Alternating Currents 14. Optics 15. Modern Physics Each section contains fundamental formulas vital for solving typical exam problems.

### Kinematics

Basic Equations of Motion:  $v = u + at$   $s = ut + \frac{1}{2}at^2$   $v^2 = u^2 + 2as$   $s = \frac{u + v}{2} \times t$  Where:  $u$  = initial velocity  $v$  = final velocity  $a$  = acceleration  $s$  = displacement  $t$  = time

### Laws of Motion and Dynamics

Newton's Second Law:  $F = ma$  Frictional Force:  $F_{\text{friction}} = \mu N$  Universal Law of Gravitation:  $F = G \frac{m_1 m_2}{r^2}$  Centripetal Force:  $F_c = \frac{mv^2}{r}$  Moment of Inertia (for basic shapes): - Solid sphere:  $I = \frac{2}{5} m r^2$  - Hollow sphere:  $I = \frac{2}{3} m r^2$  - Rod rotating about center:  $I = \frac{1}{12} m l^2$

### Work, Energy, and Power

Work Done:  $W = F s \cos \theta$  Kinetic Energy:  $KE = \frac{1}{2} m v^2$  Potential Energy in gravity:  $PE = mgh$  Work-Energy Theorem:  $W_{\text{net}} = \Delta KE$  Power:  $P = \frac{W}{t} = F v \cos \theta$

### Rotational Motion

- Angular Displacement:  $\theta$  (radians) - Angular Velocity:  $\omega$  - Angular Acceleration:  $\alpha$  Fundamental Equations: -  $\omega = \omega_0 + \alpha t$  -  $\theta = \omega_0 t + \frac{1}{2} \alpha t^2$  -  $\omega^2 = \omega_0^2 + 2 \alpha \theta$  Relationship between linear and angular quantities: -  $v = r \omega$  -  $a_t = r \alpha$  (tangential acceleration) -  $a_c = r \omega^2$  (centripetal acceleration) Moment of Inertia (as above) Torque:  $\tau = I \alpha$

## Gravitation

- Acceleration due to gravity:  $g = \frac{GM}{r^2}$  - Orbital velocity:  $v_{\text{orbit}} = \sqrt{\frac{GM}{r}}$  - Escape velocity:  $v_{\text{escape}} = \sqrt{\frac{2GM}{r}}$  - Potential energy in gravitational field:  $U = -G \frac{m_1 m_2}{r}$

## Properties of Matter

- Hooke's Law:  $F = kx$  - Young's Modulus:  $Y = \frac{\text{Stress}}{\text{Strain}} = \frac{FL}{Ax}$  - Bulk Modulus:  $K = -V \frac{\Delta P}{\Delta V}$  - Young's Modulus in terms of stress and strain:  $Y = \frac{\text{Stress}}{\text{Strain}}$

## Fluid Mechanics

- Continuity Equation:  $A_1 v_1 = A_2 v_2$  - Bernoulli's Equation:  $P + \frac{1}{2} \rho v^2 + \rho gh = \text{constant}$  - Viscosity (Poiseuille's Law):  $Q = \frac{\pi r^4 \Delta P}{8 \eta l}$  - Reynolds Number:  $Re = \frac{\rho v d}{\eta}$

## Thermodynamics

- First Law of Thermodynamics:  $\Delta U = Q - W$  - Specific Heat Relations:  $Q = mc \Delta T$  - Ideal Gas Law:  $PV = nRT$  - Work done in expansion:  $W = P \Delta V$  (for isothermal process)

## Oscillations and Waves

- Simple Harmonic Motion (SHM):  $x(t) = A \sin(\omega t + \phi)$  - Angular frequency:  $\omega = \sqrt{\frac{k}{m}}$  - Period and frequency:  $T = 2\pi \sqrt{\frac{m}{k}}$   $f = \frac{1}{T}$  - Wave speed:  $v = f \lambda$  - Wave equation:  $y(x, t) = A \sin(kx - \omega t)$

## Electrostatics

- Coulomb's Law:  $F = k_e \frac{q_1 q_2}{r^2}$  where  $(k_e = 9 \times 10^9 \text{ Nm}^2/\text{C}^2)$  - Electric Field:  $E = \frac{F}{q} = k_e \frac{Q}{r^2}$  - Electric Potential:  $V = \frac{k_e Q}{r}$  - Capacitance (Parallel Plate):  $C = \frac{\epsilon_0 A}{d}$  - Energy stored in a capacitor:  $U = \frac{1}{2} C V^2$

## Current Electricity

- Ohm's Law:  $V = IR$  - Resistance of wire:  $R = \rho \frac{l}{A}$  - Power dissipated:  $P = IV = I^2 R$  - Series and Parallel resistances: - Series:  $R_{\text{total}} = R_1 + R_2 + \dots$  - Parallel:  $\frac{1}{R_{\text{total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$  - Cell potential difference (EMF):  $\text{Emf} = \text{Total work done per unit charge}$

# Magnetism and Magnetic Effects

- Magnetic force on moving charge:  $F = q v B \sin \theta$  - Biot-Savart Law:  $dB = \frac{\mu_0}{4\pi} \frac{I dl \sin \theta}{r^2}$  - Magnetic field due to a long straight current-carrying wire:  $B = \frac{\mu_0 I}{2\pi r}$  - Magnetic dipole moment:  $\mu = I A$

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People often underestimate how much pressure affects learning. When a book feels heavy, expensive, or difficult to access, hesitation appears. Downloadable access softens that barrier. Readers open the book without expectations, knowing they can pause, return, or stop at any time without consequence.

This relaxed approach often leads to deeper engagement. Without the need to rush, readers move at their own pace. They reread passages that resonate and skip sections that feel less relevant in the moment. Over time, understanding builds naturally through repetition and reflection.

Daily life rarely offers long stretches of uninterrupted focus. Instead, it provides fragments. A few quiet minutes, a short break, an unexpected pause. Downloading [Direct Formulas For Physics For Competitive Exam](#) allows these fragments to become useful. Each small interaction contributes to a growing familiarity with the material.

Portability strengthens this habit. When books travel easily, reading becomes spontaneous. A reader might open a chapter while waiting, return later at home, and revisit the same idea days afterward. The content stays consistent, even as context changes.

PDF format plays an important role here. Pages remain stable. Diagrams stay aligned. Paragraphs appear exactly where expected. This consistency allows readers to focus on meaning rather than format, especially when dealing with detailed or structured material.

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Search tools quietly enhance confidence. Readers know they can always find what they need without frustration. This makes the book useful not only for reading, but also for quick

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Different reading personalities find comfort here. Some readers prefer structure, others prefer exploration. The format supports both without judgment. Direct Formulas For Physics For Competitive Exam adapts to individual habits rather than enforcing a single approach.

Accessibility features broaden participation. Adjustable text sizes, reading assistance, and compatibility with support tools allow more people to engage comfortably. These options quietly remove barriers without drawing attention to themselves.

Organization becomes intuitive over time. Digital libraries grow alongside interests. Notes remain saved, highlights preserved, and bookmarks easy to find. Learning feels continuous instead of fragmented.

There is also a subtle emotional shift. When readers know a book is always available, anxiety decreases. There is no rush to understand everything at once. Ideas are allowed to settle slowly, becoming clearer with each return.

Global access adds richness. Readers from different backgrounds engage with the same material, often interpreting ideas through unique lenses. This shared access broadens perspective and encourages reflection.

Exploration becomes easier when effort is low. Readers connect ideas across topics, move between subjects, and allow curiosity to guide them. This kind of learning feels organic rather than planned.

Long-term engagement grows quietly. Notes taken months ago still matter. Bookmarks still guide attention. The book becomes part of an ongoing learning process rather than a temporary focus.

Over time, books stop feeling like tasks. They become companions. They wait without demanding attention, ready to be opened again when questions return.

This steady presence shapes attitude. Learning feels less intimidating. Curiosity feels welcome. Understanding feels earned through patience rather than speed.

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There is no clear endpoint here. Reading pauses and resumes. Understanding deepens gradually. Ideas resurface in new contexts.

What remains is familiarity. The comfort of knowing that insight is close, waiting quietly, ready to be explored again whenever curiosity decides to return.

## Questions & Answers About direct formulas for physics for competitive exam

| No | Question                                                                                         | Answer                                                                                                                                   |
|----|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | What is the direct formula for calculating the acceleration due to gravity near Earth's surface? | The direct formula is $g = GM / R^2$ , where G is the gravitational constant, M is Earth's mass, and R is the radius of Earth.           |
| 2  | How do you find the velocity of a freely falling object after time t using a direct formula?     | The velocity is given by $v = g t$ , where g is the acceleration due to gravity.                                                         |
| 3  | What is the direct formula for work done by a constant force?                                    | Work done, $W = F d \cos\theta$ , where F is the force, d is the displacement, and $\theta$ is the angle between force and displacement. |
| 4  | How is the kinetic energy of an object calculated using a direct formula?                        | Kinetic energy, $KE = (1/2) m v^2$ , where m is mass and v is velocity.                                                                  |

|   |                                                                                               |                                                                                                                   |
|---|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 5 | What is the direct formula for calculating the potential energy stored in a stretched spring? | Potential energy, $PE = (1/2) k x^2$ , where $k$ is the spring constant and $x$ is the extension or compression.  |
| 6 | How do you calculate the power developed in an electric circuit directly?                     | Power, $P = V I$ , where $V$ is voltage and $I$ is current.                                                       |
| 7 | What is the direct formula for the period of a simple pendulum?                               | Period, $T = 2\pi \sqrt{l / g}$ , where $l$ is the length of the pendulum and $g$ is acceleration due to gravity. |
| 8 | How can you directly calculate the density of an object?                                      | Density, $\rho = \text{mass} / \text{volume}$ .                                                                   |

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### **Study strategies using Direct Formulas For Physics For Competitive Exam**

Effective learning with Direct Formulas For Physics For Competitive Exam involves more than just reading. Creating a structured study routine improves outcomes. Breaking content into manageable sections prevents cognitive overload and encourages regular study habits. Setting specific goals for each reading session helps maintain focus and motivation.

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Many reading applications include accessibility features such as night mode, contrast adjustments, and dyslexia-friendly fonts. These tools reduce eye strain and improve comprehension, allowing users to tailor the learning experience to their individual needs.

Accessibility also includes language and learning flexibility. Digital Direct Formulas For Physics For Competitive Exam can be translated, read aloud, or combined with assistive tools such as dictionaries and note-taking apps. This inclusivity ensures that a wider audience can benefit from the content regardless of physical or cognitive limitations.

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### **Device Compatibility**

One of the reasons Direct Formulas For Physics For Competitive Exam is widely used is its broad compatibility with modern devices. Most computers, tablets, and smartphones support PDF readers by default or through free applications. This universal compatibility ensures that learners can access content regardless of hardware or operating system.

ePub formats are commonly supported on tablets, smartphones, and dedicated eReaders. They offer flexible layouts that adapt to different screen sizes, improving readability. Audiobook formats are supported by a wide range of media players and mobile apps, allowing learning on the go.

Kindle and other eReaders may require format conversion for certain files. Many tools exist to convert PDFs or ePub files into compatible formats while preserving readability. Before converting, users should ensure that formatting and navigation remain intact for an optimal reading experience.

Synchronizing reading progress across devices further enhances usability. Many platforms allow users to resume reading, access bookmarks, and view annotations on multiple devices. This seamless experience supports flexible learning across different environments.

### **Optimizing learning across devices**

To maximize compatibility, users should keep reading apps and operating systems updated. Updated software ensures better performance, security, and support for accessibility features. Regular updates also improve compatibility with newer file formats and interactive elements.

### **Combining Direct Formulas For Physics For Competitive Exam with other learning resources**

Direct Formulas For Physics For Competitive Exam works best when combined with complementary learning resources. Videos, lectures, discussion forums, and practice exercises can reinforce concepts introduced in the text. Digital formats make it easy to integrate multiple resources into a cohesive learning workflow.

Learners can link notes from Direct Formulas For Physics For Competitive Exam to external references or embed links to online materials. This interconnected approach supports deeper exploration and contextual understanding. Using digital tools effectively transforms Direct Formulas For Physics For Competitive Exam into a central hub for learning rather than a standalone resource.

### **Developing long-term learning habits**

Consistent use of Direct Formulas For Physics For Competitive Exam encourages disciplined study habits. Digital libraries promote organization, while annotations and summaries support active learning. Over time, these practices help learners build a personalized knowledge base that can be revisited and expanded as needed.

### **Final thoughts on learning with Direct Formulas For Physics For Competitive Exam**

Learning with Direct Formulas For Physics For Competitive Exam offers flexibility, accessibility, and efficiency for modern learners. By using effective study strategies, leveraging accessibility features, downloading content from legal sources, and ensuring device compatibility, users can maximize the educational value of Direct Formulas For Physics For Competitive Exam. When combined with thoughtful organization and complementary resources, Direct Formulas For Physics For Competitive Exam becomes a powerful tool for lifelong learning and knowledge development.