

Q.31: Describe the power of a lens.

Ans: **The Power of a Lens:**

Lenses are used to converge or diverge the incident light rays. The ability of a lens to refract the rays of light depends on its focal length. For example, a convex lens with a shorter focal length bends the light rays through a higher convergence by focusing them closer to the optical centre.

Similarly, a very short focal length of the concave lens will cause the light rays to diverge at higher angles away from the focal point. The degree of convergence or divergence of light rays attained by a lens expresses its refractive power.

Definition:

The power of a lens is defined as the reciprocal of its focal length, measured in meters inverse (m^{-1}).

The power is represented by the letter P. The power P of a lens of focal length f is given by

$$P = \frac{1}{\text{focal length}} \quad \text{or} \quad P = \frac{1}{f}$$

S.I Unit of the Power of a Lens:

The S.I unit of power of a lens is the 'diopter'. It is denoted by the letter D. The power of a lens whose focal length is

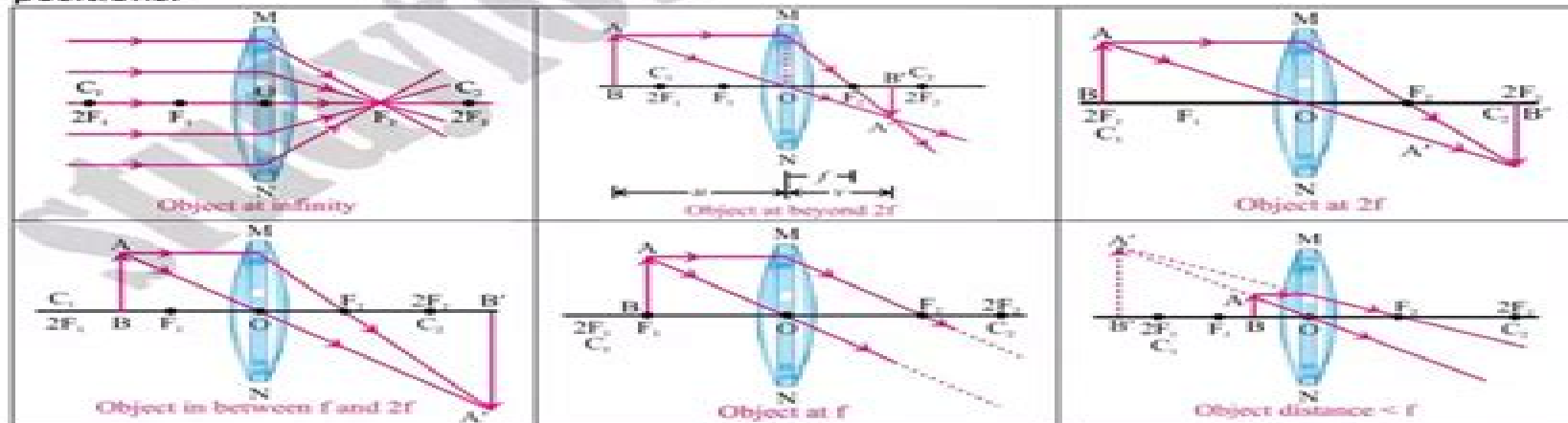
$$1\text{D} = 1\text{ m}^{-1}$$

It is always to be remembered that the power of a convex lens is positive, and that of concave lens is negative.

Q.32: How do images formed by lenses?

Ans: **Image Formation by Lenses:**

The ray diagrams illustrate the formation of images by a convex lens for various object positions.



Ray diagrams for the image formation by a convex lens

Geometric Optics Questions And Answers

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Geometric Optics Questions And Answers:

Geometric Optics ,1960 , **Geometric Optics** Antonio Romano,2009-10-10 This book unique in the literature provides readers with the mathematical background needed to design many of the optical combinations that are used in astronomical telescopes and cameras The results presented in the work were obtained by using a different approach to third order aberration theory as well as the extensive use of the software package Mathematica Replete with workout examples and exercises Geometric Optics is an excellent reference for advanced graduate students researchers and practitioners in applied mathematics engineering astronomy and astronomical optics The work may be used as a supplementary textbook for graduate level courses in astronomical optics optical design optical engineering programming with Mathematica or geometric optics **Geometric Optics, Seminar-in-depth** ,1966 Engineering Physics Questions and Answers PDF Arshad Iqbal, The Engineering Physics Quiz Questions and Answers PDF Engineering Physics Competitive Exam Questions Chapter 1 36 Practice Tests Class 8 12 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Engineering Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Engineering Physics Quiz PDF book helps to practice test questions from exam prep notes The Engineering Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Engineering Physics Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Alternating fields and currents astronomical data capacitors and capacitance circuit theory conservation of energy coulomb s law current produced magnetic field electric potential energy equilibrium indeterminate structures finding electric field first law of thermodynamics fluid statics and dynamics friction drag and centripetal force fundamental constants of physics geometric optics inductance kinetic energy longitudinal waves magnetic force models of magnetism newton s law of motion Newtonian gravitation Ohm s law optical diffraction optical interference physics and measurement properties of common elements rotational motion second law of thermodynamics simple harmonic motion special relativity straight line motion transverse waves two and three dimensional motion vector quantities work kinetic energy theorem tests for college and university revision guide Physics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Engineering Physics Interview Questions Chapter 1 36 PDF book includes high school question papers to review practice tests for exams Engineering Physics Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam Engineering Physics Questions Bank Chapter 1 36 PDF book covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Alternating Fields and Currents Questions Chapter 2 Astronomical Data Questions Chapter 3 Capacitors and Capacitance Questions Chapter 4 Circuit Theory Questions Chapter 5 Conservation of Energy Questions Chapter 6 Coulomb s Law Questions Chapter 7 Current Produced Magnetic Field

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Herman,2016-01-09 This book comprehensively addresses the physics and engineering aspects of human physiology by using and building on first year college physics and mathematics Topics include the mechanics of the static body and the body in motion the mechanical properties of the body muscles in the body the energetics of body metabolism fluid flow in the cardiovascular and respiratory systems the acoustics of sound waves in speaking and hearing vision and the optics of the eye the electrical properties of the body and the basic engineering principles of feedback and control in regulating all aspects of function The goal of this text is to clearly explain the physics issues concerning the human body in part by developing and then using simple and subsequently more refined models of the macrophysics of the human body Many chapters include a brief review of the underlying physics There are problems at the end of each chapter solutions to selected problems are also provided This second edition enhances the treatments of the physics of motion sports and diseases and disorders and integrates discussions of these topics as they appear throughout the book Also it briefly addresses physical measurements of and in the body and offers a broader selection of problems which as in the first edition are geared to a range of student levels This text is geared to undergraduates interested in physics medical applications of physics quantitative physiology medicine and biomedical engineering Oswaal ISC 10 Sample Question Papers Class 12 Physics For Board Exams 2024 (Based On The Latest CISCE/ ISC Specimen Paper) Oswaal Editorial Board,2023-10-14 Description of the product Fresh Relevant with 2024 ICSE ISC Specimen Paper Fully Solved Score Boosting Insights with 500 Questions 1000 Concepts Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 10 Highly Probable SQPs

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