

## Chapter 25 Optical Instruments Answers To Questions

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eBook.

## **Chapter 25: Optical Instruments - ProProfs Quiz**

CHAPTER 25 OPTICAL INSTRUMENTS 45. The eyepiece of a microscope has a focal length of 3.40 cm and the objective lens has  $f = 0.740$  cm. If an object is placed 0.790 cm from the objective lens, calculate the distance between the lenses. A. 14.0 cm B. 21.3 cm C. 25.8 cm D. None of above. 46.

## **Chapter 25 - Optical Instruments - Misconceptual Questions ...**

Mastering Physics Solutions Chapter 27 Optical Instruments Mastering Physics Solutions Chapter 27 Optical Instruments Q.1CQ Why is it restful to your eyes to gaze off into the distance? Solution: When a person with normal vision relaxes the ciliary muscles of the eye. An object at infinity is in focus. In a nearsighted person, however [...]

## **Solved: Concept Check #6 Chapter 25: Visual And Optical In ...**

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### **Solved: CHAPTER 25 OPTICAL INSTRUMENTS 45. The Eyepiece Of ...**

CHAPTER 25 OPTICAL INSTRUMENTS THE CAMERA THE EYE MAGNIFIER MICROSCOPE TELESCOPE . 2 CAMERA Main Parts of Camera: Enclosed light tight chamber Light detector – film or photo cells Lens combination – to focus the image on the film or photo cells.

### **Chapter 25 - Optical Instruments - Misconceptual Questions ...**

Chapter 25: Visual and Optical Instruments Chapter 26: Relativity. 1. A biology student uses a converging lens to examine the details of a small insect. If the focal length of the lens is 12 cm, what is the maximum angular magnification given by the lens? What is the magnification for relaxed-eye viewing? 2.

## Chapter 25 Optical Instruments Answers

CHAPTER 25: Optical Instruments Answers to Questions 1. Stopping down a lens to a larger  $f$ -number means that the lens opening is smaller and only light rays coming through the central part of the lens are accepted. These rays form smaller circles of confusion, which means a greater range of object distances will be more sharply focused. 2.

## Optical Instruments Answers to Conceptual Questions

Chapter 25-Optical Instruments MULTIPLE CHOICE 1. What is the  $f$ -number of a camera lens that has an aperture-opening diameter of 0.30 cm and a focal length of 3.0 cm?

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## 56157 25 ch25 p361-381 - Department of Physics

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### **Solved: Chapter 25-Optical Instruments MULTIPLE CHOICE 1 ...**

Chapter 25: Optical Instruments . Chapter 25: Optical Instruments . 4 Questions | By Drtaylor | Last updated: Mar 19, 2013 . Please take the quiz to rate it. Settings. ... None of the given answers. 2. The amount of light reaching the film in a camera is determined by the. A. Shutter speed. B. F-stop. C.

### **Physics Mcqs Ch.10 – 'Optical Instruments' with Answers**

Chapter 25 Optical Instruments Quick Quizzes 1. (c). The corrective lens for a farsighted eye is a converging lens, while that for a nearsighted eye is a diverging lens. Since a converging lens is required to form a real image of the Sun on the paper to start a fire, the campers should use the glasses of the farsighted person. 2. (a).

### **Chapter 25 Optical Instruments - UMass Lowell**

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### **Optical Instruments - University of Florida**

chapter25 Optical Instruments 1. Raymond A. Serway Chris Vuille  
Optical Instruments 1 2. Analysis generally involves the laws of reflection and refraction. Analysis uses the procedures of geometric optics (Ray model of light). However, To explain certain phenomena, the wave nature of light must be used.

### **Chapter 25 - Optical Instruments - Misconceptual Questions ...**

Chapter 25 Optical Instruments Answers to Conceptual Questions 4. For a lens to operate as a simple magnifier, the object should be located just inside the focal point of the lens. If the power of the lens is +20.0 diopters, its focal length is  $f = \frac{1}{P} = \frac{1}{20.0} \text{ m} = 0.0500 \text{ m} = 5.00 \text{ cm}$

### **Chapter 25 - Optical Instruments - Misconceptual Questions ...**

Optical Instruments 363 ANSWERS TO CONCEPTUAL QUESTIONS 2. The objective lens of the microscope must form a real image just inside the focal point of the ... 364 Chapter 25 25.3 The thin lens

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equation,  $\frac{1}{p} + \frac{1}{q} = \frac{1}{f}$ , gives the image distance as  $q = pf / (p - f)$  ...  
Optical Instruments 365 25.6 (a) The intensity is a measure of the rate at which ener ...

### **CHAPTER 25 OPTICAL INSTRUMENTS - Texas A&M University**

Chapter 25 . Optical Instruments . Questions . 1. Why must a camera lens be moved farther from the sensor or film to focus on a closer object? 2. Why is the depth of field greater, and the image sharper, when a camera lens is “stopped down” to a larger . f-number? Ignore diffraction.

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