

Photography and Human Physiology

Photography · Practice Test · 12 Questions

1. Which part of the human eye functions most similarly to a camera lens by focusing light onto the retina?

- A) The iris
- B) The cornea
- C) The crystalline lens
- D) The vitreous humor

2. In photography, 'red-eye' occurs when a camera flash reflects off which structure at the back of the human eye?

- A) The macula
- B) The choroid
- C) The optic disc
- D) The fovea

3. What is the medical term for the eye condition where a person has difficulty focusing on close-up objects, often requiring corrective lenses that mimic a macro photography focus?

- A) Myopia
- B) Hyperopia
- C) Astigmatism
- D) Glaucoma

4. Long-term exposure to high-intensity strobe lighting has been clinically observed to potentially trigger which health condition in susceptible individuals?

- A) Photosensitive epilepsy
- B) Tinnitus
- C) Macular degeneration
- D) Color blindness

5. Which photoreceptor cells in the human retina are primarily responsible for low-light vision, analogous to high ISO settings in digital sensors?

- A) Cone cells
- B) Ganglion cells
- C) Rod cells
- D) Bipolar cells

6. The 'persistence of vision' phenomenon, which makes cinematic photography appear as continuous motion, is caused by limitations in which human organ?

- A) The brain
- B) The inner ear
- C) The pineal gland
- D) The hypothalamus

7. Excessive blue light exposure from high-resolution digital camera screens and monitors is known to interfere with the secretion of which hormone?

- A) Adrenaline
- B) Melatonin
- C) Insulin
- D) Cortisol

8. Which visual defect, often corrected in photographic post-processing, occurs in the human eye when the cornea is curved unevenly?

- A) Astigmatism
- B) Cataracts
- C) Presbyopia
- D) Nystagmus

9. What is the primary function of the iris in the human eye, which serves the same mechanical purpose as a camera aperture?

- A) Filtering UV rays
- B) Adjusting the focal length
- C) Controlling the amount of light entering the eye
- D) Refracting light images

10. In the context of color photography and biology, which cells in the retina provide the 'color data' that the brain interprets?

- A) Rod cells
- B) Cone cells
- C) Amacrine cells
- D) Horizontal cells

11. Which condition, caused by prolonged intense focusing on a camera viewfinder or screen, is characterized by eye strain and reduced blink rate?

- A) Digital Eye Strain
- B) Retinal detachment
- C) Hypertrophy
- D) Strabismus

12. The fovea centralis provides the highest visual acuity in the human eye, much like which part of a digital image sensor?

- A) The pixel pitch
- B) The center focus point
- C) The Bayer filter
- D) The CMOS circuitry