

Special Senses: Eye Review Guide

Name: _____

Section: _____

Directions: You will learn best if you **WRITE OUT THE QUESTIONS AND ANSWERS ON SEPARATE SHEETS OF PAPER!!!**

1. Describe the functions of the following structures of the eye **AND** be able to label them on a diagram:
 - a. Aqueous humor- transparent liquid behind the cornea, delivers nutrients to the cornea
 - b. Canal of Schlemm-
 - c. Choroid- absorbs all light that does not directly hit a rod or cone cell
 - d. Ciliary body- controls the shape of the lens
 - e. Ciliary glands-
 - f. Conjunctiva- Mucous membrane covered by a specialized stratified squamous epithelium
 - g. Cornea- transparent, allowing light to pass
 - h. Iris- colored layer of the eye (controls the amount of light let into the eye)
 - i. Lacrimal glands (and the other structures of the lacrimal apparatus)
 - j. Lens- focuses light to the fovea centralis, transparent
 - k. Optic disc
 - l. Retina- first internal layer of the eye, contains photoreceptors
 - m. Suspensory ligaments- help control the shape of the lens to focus light
 - n. Vitreous humor- gel like substance in the posterior chamber, gives structure to the eye and maintains its shape
2. "Pink eye" is an example of an infection of which accessory structure of the eye?
Conjunctiva
3. List **AND** describe the functions of the six extrinsic muscles of the eye. Make sure you know which cranial nerve innervates each of extrinsic eye muscle.

Superior Rectus Muscle- moves eye up/in, cranial nerve 3

Inferior Rectus Muscle- moves eye down/in, cranial nerve 3

Lateral Rectus Muscle- moves eye out, cranial nerve 6

Medial Rectus Muscle- moves eye in, cranial nerve 3

Superior Oblique- moves eye down/out, cranial nerve 4

Inferior Oblique- moves eye up/out, cranial nerve 3

Predict the effects of unilateral lesions to cranial nerves III, IV, or VI on the movement of the eyes.

SR3 LR6 SO4
4. The outermost tunic of the eye is the Fibrous tunic
5. The middle tunic of the eye is the Vascular tunic
6. The innermost tunic of the eye is the Neural tunic
7. List the three different tunics of the eyeball (in order from most superficial to deep) – including the structures (**and their functions**) found in each tunic.

Fibrous tunic:

 1. Sclera- white connective tissue layer, protects the shape of eyeball, serves as an attachment point for the extrinsic eye muscles
 2. Cornea- transparent, allowing light to pass through, repairs itself easily

Vascular tunic:

 1. Iris- the part of the eye that gives it its color, holds brown pigment in eye
 2. Ciliary Body- smooth muscle, changes the shape of the lens (helps focus or dilates pupil)
 3. Choroid-

Neural tunic:

Study Guide Special Senses The Eye

Lauren Gardner



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