NAME		
LAR TIME/DATE		

REVIEW SHEET EXERCISE

Special Senses: Vision

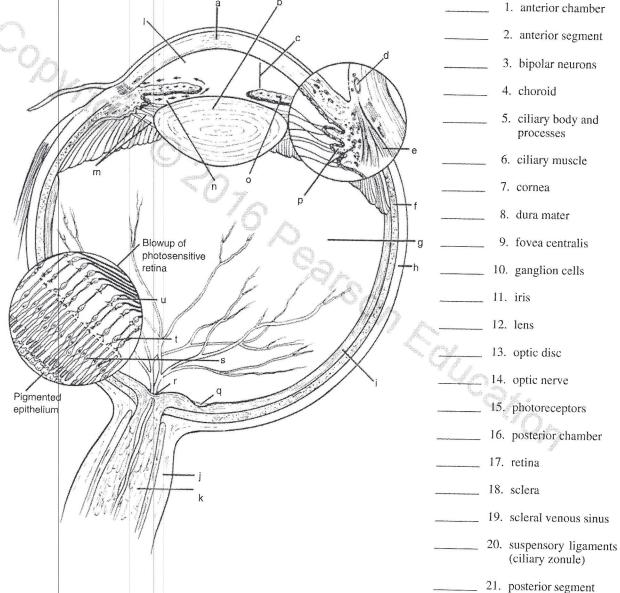
Anatomy of the Eye

1. Name five accessory eye structures that contribute to the formation of tears and/or aid in lubrication of the eyeball, and then name the major secretory product of each. Indicate which has antibacterial properties by circling the correct secretory product.

	A	ccessory structures	Product
2	. The	eyeball is wrapped in adipose tissue within the orbit. Wha	at is the function of the adipose tissue?
3.	Why	does one often have to blow one's nose after crying?	
4.	Iden	tify the extrinsic eye muscle predominantly responsible fo	
		l. tu	rns the eye laterally
	***************************************	2. tui	ns the eye medially
	***************************************	3. tur	ns the eye up and laterally
		4. tur	ns the eye inferiorly and medially
		5. tur	ns the eye superiorly and medially
		6. tur	ns the eye down and laterally
5.	What	is a sty?	
	Conju	inctivitis?	

6. Correctly identify each lettered structure in the diagram by writing the letter next to its name in the numbered list.

1. anterior chamber
2. anterior segment



Notice the arrows drawn close to the left side of the iris in the diagram above. What do they indicate?

7. The iris is composed primarily of two smooth muscle layers, one arranged radially and the other circularly.

Which of these dilates the pupil?

- 8. You would expect the pupil to be dilated in which of the following circumstances? Circle the correct response(s).
 - a. in bright light
- b. in dim light
- c. focusing for near vision
- d. observing distant objects
- 9. The intrinsic eye muscles are controlled by (circle the correct response):

autonomic nervous system

somatic nervous system

1	0. N	latch th	e key respor	ses with the descripti	ive s	tatements that follow.					
		b. c. d.	aqueous hi choroid ciliary bod ciliary prod the ciliary	y esses of	e. f. g. h. i.	cornea fovea centralis iris lens optic disc] ,	l. m.	retina sclera scleral venous sinus vitreous humor		
	4 <u>-</u>				1	I. fluid filling the anto		he e	ye		
			5///			2. the "white" of the e	•				
	*********	***************************************				3. part of the retina tha					
	***************************************			507	4	and contains the cili	ary muscle		the shape of the crystalline lens		
				4	5	drains the aqueous l	numor from the ey	ye			
	********				6	. layer containing the	rods and cones				
	West of the second				_ 7	. substance occupying	g the posterior seg	gme	nt of the eyeball		
	***************************************				8.	8. forms the bulk of the heavily pigmented vascular layer					
	***************************************	***************************************	***************************************		9.	smooth muscle struc	tures (2)				
	-				_ 10). area of critical focus	ing and discrimin	ato	ry vision		
	***************************************	·····			_ 11	1. form (by filtration) t	he aqueous humo	r	15.0		
					_ 12	2. light-bending media	of the eye (4)	,			
	******************		,		_ 13	anterior continuation	of the sclera—yo	our '	'window on the world''		
					_ 14	. composed of tough, v	white, opaque, fib	rou	s connective tissue		
M	ici	OSC	opic A	natomy of	th	ie Retina					
	The	two ma	jor layers of	the retina are the enit	helis		ne neural layer, the	e ne	uron populations are arranged nse.)		
	bipo	lar cell	s, ganglion o	ells, photoreceptors		photorece	otors, ganglion ce	ells,	bipolar cells		
	gang	glion ce	lls, bipolar c	ells, photoreceptors		photorece	otors, bipolar cells	s, ga	anglion cells		
12.	The	axons c	of the			cells form the op	ptic nerve, which	exit	s from the eyeball.		
						ner rods or cones on eac					
						. Only		ne fe	ovea centralis, whereas		
									otoreceptors that operate best		
				for color vision.				•	1 Special cost		

Dissection of the Cow (Sheep) Eye

14. What modification of	f the choroid that is not present in humans is found in the cow eye?	
What is its function?		
No. 10 (1975)		
20 A 12 A		
	look like?	
At what point is it at	ached to the posterior aspect of the eyeball?	
Visual Pathy	ays to the Brain	
6. The visual pathway t	the occipital lobe of the brain consists most simply of a chain of five	va calla Daginning with the all
		/e cens. Beginning with the pho-
1.	4.	
2.		
	5.	
	one to reveal destruction along the visual pathway from the retina to the ely to be in the following cases.	
Normal vision in 1-6	eye visual field; absence of vision in right eye visual field:	
Normal vision in both	eyes for right half of the visual field; absence of vision in both eyes f	for left half of the visual field:
		1402
	tract anatomically different from the right optic nerve?	
	race anatomicany different from the right optic nerve?	
isual Tests	nd Experiments	
	umn B with the descriptions in column A.	
	Min B with the descriptions in column A.	
Column A		Column B
	l. light bending	a. accommodation
	2. ability to focus for close (less than 20 feet) vision	b. astigmatism
	3. normal vision	
		c. convergence
	inability to focus well on close objects (farsightedness)	d. emmetropia
	. nearsightedness	e. hyperopia
	. blurred vision due to unequal curvatures of the lens or cornea	f. myopia
	medial movement of the eyes during focusing on close objects	g. refraction
nita Kandula (kandulaanita@fin		g. retraction