**Build Up Your Understanding** 

## EXERCISE-I (Conceptual Questions)

	F	CYE				
1.	Aperture of an eye can be changed by:- (1) Aquous humor (3) Ciliary muscles	<ul><li>(2) Vitreous humor</li><li>(4) Iris</li></ul>				
2.	Which is responsible for colour detection ?(1) Cones(2) Rodls	(3) Rods and cones	(4) Choroid			
3.	Pigmented layer in eye is called :- (1) Cornea (2) Sclerotic	(3) Retina	(4) All			
4.	Rhodopsin is a constituent of :-(1) Cornea(2) Choroid	(3) Rods	(4) Cones			
5.	If the source of bright light in front of eye s (1) Pupil contract (3) Vitreous humor becomes liquid like	(2) Focus of lens cha	anges			
6.	<ul> <li>(3) Vitreous numor becomes inquid like</li> <li>Retina of the vertebrates eye consists of :-</li> <li>(1) Neurons and neuroglia</li> <li>(3) Rods, cones and neuroglia</li> </ul>	<ul> <li>(4) Retina blood supply is cut-off</li> <li>(2) Rods, cones, neurons and neuroglia</li> <li>(4) Rods and cones</li> </ul>				
7.	The focal length of the lens in eye is contro (1) Vitreous humor (3) Iris muscles	olled by (2) Ciliary muscles (4) Pupil				
8.	Night blindness is caused due to :- (1) Hypermatropia (3) Defective cornea	<ul><li>(2) Myopia</li><li>(4) Deficiency of rhodopsin in rods</li></ul>				
9.	During night when the intensity of light is (1) Rods (2) Cones	low, it is detected by :- (3) Both	(4) Crystalline lens			
10.	To correct myopia vision one should use :- (1) Convex lens (2) Concave lens	(3) Plane lens	(4) None			
11.	Where is the cavity of vitreous humor foun (1) Between sclerotic and choroid (3) Behind lens	nd ? (2) Infront of lens (4) Between choroid and retina				
12.	Function of iris is to :- (1) Alter diameter of pupil (3) Secrete aqueous humor	<ul><li>(2) Close eye lids</li><li>(4) Move the lens</li></ul>				
13.	The pigment found in rods is :-(1) Rhodopsin(2) Melanine	(3) Photosin (4) Keratin				

14.	Which pigment hel (1) Haemoglobin	ps some nocturnal and (2) Porphyrin	imal to see at night? (3) Guanine	(4) Heparin						
15.	Eye is most sensitiv (1) 20 Å	ve to :- (2) 1000 Å	(3) 5000 Å	(4) 7000 Å						
16.	Area of most active (1) Blind spot	vision in eye where (2) Yellow spot	sharp image is formed (3) Lens	l is called :- (4) Pupil						
17.	Blind spot in the ey (1) In the center of (3) In fovea central	<ul><li>(2) In the center of</li><li>(4) Where optic n</li></ul>	of lens herves leaves retina							
18.	<ol> <li>(1) Mesoderm</li> <li>(2) Ectoderm</li> <li>(3) Endoderm</li> </ol>	vertebrate eye develop oderm and partly from								
19.	· · · · ·	t of eye which develo (2) Astigmatism		(4) Myopia						
20.	Ciliary muscles are found in :- (1) Junction of choroid and iris in eye ball (2) Inside larynx toregulate tension in eye ball (3) Between ribs to assist in breathing movement (4) At base of cilia in ciliated epithelium									
21.	The aperture contro (1) Iris	lling the light enterin (2) Pupil	g in eye is called:- (3) Blind spot	(4) Sclerotic layer						
22.	<ul><li>(1) Behind retina and</li><li>(2) Behind retina and</li><li>(3) Infront of retina</li></ul>	nd can be corrected by nd can be corrected by and can be corrected		s.						
23.	All bones provide s (1) Ribs	upport and protection (2) Atlas vertebra	to body parts which (3) Malleus	bone is different in it's function:- (4) Radius						
24.	Convex lens is used (1) Hypermatropia		(3) Cataract	(4) Glaucoma						
25.	Owls moves freely (1) Adjustable pupi (3) Only rods in ret		ey have : (2) Only cones in (4) Vitamin a def							
26.	Which one of the fo (1) Hypermatropia		nan belongs to the san (2) Rabies	ne category as haemophilia ?						

	(3) Night blindness		(4) Colour blindnes	S					
27.	Transmission of lig (1) Mechanical pro (3) Chemical proce		(2) Physical process	a :- (2) Physical process (4) Biochemical process					
28.	Colour blindness ir (1) Vitamin A defic (3) Over activity of	-	to: (2) Sex linked inher (4) Excessive drinki						
29.	How many oblique inside the eye orbit	?		e eye ball in various direction					
	(1) Two	(2) Four	(3) Six	(4) Eight					
30.	A small region on t (1) Area centralis (3) Blind spot	he retina of the eye w	which contains only cone (2) Fovea centralis (4) Ora serrata	s is called :-					
31.	In man, nictitating (1) Absent	membrane is :- (2) Vestigeal	(3) Non-functional	(4) Functional					
32.	For the synthesis of (1) Mango	f rhodopsin, which of (2) Rice	the following food is ne (3) Carrot	eded ? (4) Tomatoes					
33.	No image formation occurs on blind-spot of retina because:- (1) It is not present of the optical axis of the eye (2) Here cones and rods are absent (3) On this part only cones are present (4) The nerve fibres of this region do not contribute in the formation of optic chiasma								
34.	"Telescopic vision" (1) Amphibians (3) Birds	' found in :-	(2) Mammals (4) None of these						
35.	Binocular vision fo (1) Man	und in :- (2) Monkey	(3) Apes	(4) All the above					
36.	Highly vascular and (1) Retina	d pigmented layer of (2) Sclerotic	human eyes is:- (3) Choroid	(4) None of these					
37.	The part of human (1) Pupil	eye which acts like d (2) Iris	iaphragm of camera is :- (3) Lens	(4) Cornea					
38.	Which of the follow (1) Atropine	ving medicine is used (2) Cocain	l to dilate pupil is? (3) Belladona	(4) All of the above					
39.									
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40.	Three layers in eye ball from inside to out s	side are-					
	(1) Retina, choroid, sclerotic	(2) Choroid, retina, s					
	(3) Sclerotic, choroid, retina	(4) Sclerotic, retina, choroid					
41.	In eyes the image which is formed on the re	etina is-					
	(1) Erect and real	(2) Erect and virtual					
	(3) Inverted and real	(4) Inverted and virt					
42.	Aqueous humor and vitreous humor are sec	•					
	(1) Iris (2) Ciliary body	(3) Lens	(4) Cornea				
43.	Pecten, a comb like structure is found in the	e eve of					
	(1) Amphibians	(2) Reptiles					
	(3) Birds	(4) Mammals					
44.	A quadua humana & vitradua humana ara sa	nonoted hyp					
44.	Aqueous humour & vitreous humour are se (1) Cornea (2) Conjunctiva	(3) Lens	(4) All				
		(J) Lelis	(4) All				
45.	In Glaucoma:-						
	(1) Eye ball elongates	(2) Eye ball shortened					
	(3) Fluid pressure increase in eye	(4) Cornea become opaque					
46.	Space between cornea & lens is :-						
<b>TU</b> .	(1) Aqueous chamber	(2) Vitreous chamber					
	(3) Fovea centralis	(4) Canal of schlem					
47.	Colour blindness is due to :-						
	(1) Deficiency of Vitamin A	(2) Deficiency of Vitamin D					
	(3) Deficiency of Vitamin E	(4) None of these					
48.	Cavity of aqueous humour is :-						
	(1) Behind the lens	(2) Infront of lens					
	(3) Between choroid and sclerotic	(4) None of these					
49.	Trachoma disease is due to infection of bac	torio					
49.	(1) Chlamydia trachomatis	(2) Bassilus					
	(3) E. Coli	(4) Salmonella					
		(1) Sumonom					
50.	The eye defect, Astigmatism can be correct	ed by using:-					
	(1) Convex lens (2) Concave lens	(3) Cylindrical lens	(4) Surgery				
51.	Mucoprotein which found in vitreous humo		(A) I				
	(1) Albumin (2) Vitrin	(3) Globulin	(4) Lysozyme				
52.	Conjunctiva of eye is derived from:-						
	(1) Epidermis (2) Dermis	(3) Mesoderm	(4) Endoderm				
53.	" Miosis" in eye refers to :-						
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	(3)	Visual pigment	Iodopsin		Rhodopsin			
	(3)	Visual acuity	High		Low			
	(2)		centre of retina	icu III	retina			
	(2)	Distribution	More concentra	tad in	vision in bright Evenly distributed all over			
	(1) Overall function Vision in poor				Colour vision and detailed			
	Rod Cel				Cone Cells			
	retina?							
63.	Which o	ne of the following	g is the correct di	fferenc	e between Rod Celis and Cone	Cells of our		
	(5) Perso	m may become bin	liu	(4) All	the above			
		ocular pressure is in on may become blin		. ,	tina start damage			
62.					ondition is developed ?			
					-			
	(1) Ector (3) Vasc	U U		<ul><li>(2) Presents on the central part of cornea</li><li>(4) Covers the anterior part of sclera</li></ul>				
61.		tatement is wrong a dermal origin	about conjunctiva		sents on the central part of corne	29		
(1	XX 71 * 1			0				
	(3) Retin			(4) Aqueous and vitreous humor				
00.	(1) Lens			(2) Co				
60.	Which et	tructure of eye is re	lated to focussing	ofeve	.2			
	(3) Mios	is		(4) No	ne of the above			
	(1) Synth	nesis of rhodopsin	0	(2) Mydriasis				
59.	When th	e human comes in	bright light then y	what wi	ill happen ?			
	(3) Retin	na (4) Cornea & ler	ns both					
	(1) Corn	ea (2) Lens	-					
58.	Which o	f the following stru	cture of eye is ar	tificiall	y implanted?			
	(3) Refle	ection		(4) All	the above			
		tion to lens			intain intraocular pressure			
57.	Function	of vitreous humor	is -					
	(3) Kera	tinization of conju	icuva	(4) All	the above			
		t blindness	activo		ratinization of cornea			
56.		nditions are develo	ped after deficien					
	(3) Lens	become nonnexit.		(4) Cu	Ivaluie of comea is changed			
		become opaque become nonflexib	ام		rvature of conjunctiva is changed rvature of cornea is changed	d		
55.	-	tism is developed v	when –					
	( <i>3)</i> mgn	ry developed cereb	fai concx	(+)110	sence of biconvex lens			
		action power of eye ly developed cereb			ell developed retina sence of biconvex lens			
54.		the cause of sterios	-					
	(3) 11044			(1) 511				
		iction division in re			reased diameter of pupil rinkage of eye ball			
	(1) Redu	ction in diameter of	of pupil	(2) Inc	reased diameter of pupil			

<ul> <li>64. Cornea transplant in humans is almost never rejected. This is because:- <ul> <li>(1) It is composed of enucleated cells</li> <li>(2) It is a non-living layer</li> <li>(3) Its cells are least penetrable by bacteria</li> <li>(4) It has no blood supply</li> </ul> </li> <li>65. Maximum refraction of light takes place at: <ul> <li>(1) It is contained</li> </ul> </li> </ul>
<ul> <li>(1) It is composed of enucleated cells</li> <li>(2) It is a non-living layer</li> <li>(3) Its cells are least penetrable by bacteria</li> <li>(4) It has no blood supply</li> </ul> 65. Maximum refraction of light takes place at:
(1) cornea (2) lens (3) iris (4) aqueous humour
<ul> <li>66. Vitreous humor contains : <ul> <li>(1) mucoprotein</li> <li>(2) water</li> <li>(3) mucoid connective tissue</li> <li>(4) all of the above</li> </ul> </li> </ul>
67. Only rods are present in the eyes of one of the following animals (1) Pigeon (2) Squirrel (3) Fowl (4) Owl
EAR
<b>68.</b> Organ of cortisis found in:- (1) Kidneys (2) Heart (3) Nasal chamber (4) Internal ear
<b>69.</b> The fluid found in semicircular annals internal ear of rennin is :- (1) Perilymph (2) Endolyhl (3) Haemolymph (4) Lymph
<ul> <li>70. Chief function of semicircular canals of internal ear- (1) Balancing and hearing</li> <li>(2) to perceive sound wibrations of high frequency</li> <li>(3) To maintain dynamic equilibrium of the body while the body is inbalance</li> <li>(4) To transmit sound vibration to the auditory</li> </ul>
<b>71.</b> In Mammals organ Cochlear corit occurs in :- (1) Main canal (2) Ear canal (3) Cochlear canal (4) Tympanum
72."Organ of corti" is connected with the sense of :- (1) Smell (3) Taste(2) Hearing (4) Equilibrium
<ul> <li>73. Which structure helps a person to maintain equilibrium ?</li> <li>(1) Cochlea</li> <li>(2) Eustachian tube</li> <li>(3) Semicircular canals</li> <li>(4) Hammer like bone</li> </ul>
<ul> <li>74. Cochlea of mammalian ear is concerned with :- <ul> <li>(1) Balancing of body</li> <li>(2) Hearing</li> <li>(3) Pereception of atmospheric pressure</li> <li>(4) Both (1) and (2)</li> </ul> </li> </ul>
<ul> <li>75. All bones provide support and protection to body parts. Which bone is different in it's function (1) Ribs (2) Atlas vertebra</li> <li>(3) Malleus (4) Radius</li> </ul>
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76.	External ear are chara (1) Mammals (2) Reptiles	acteristic of:-	<ul><li>(3) Amphibians</li><li>(4) Fishes</li></ul>						
77.	Our ear can hear sour 1) Above 20,000 cycl (3) 50-20,000 cycles/		ncy : (2) 5-100 cycles/ sec (4) 20-20,000 cycles/						
78.	The fluid surrounding (1) Perilymph (3) Haemolymph	g the membranous laby	rinth of human is calle (2) Endolymph (4) Cerebrospinal flu						
79.	Cochlea contains: (1) Scala vestibule (3) Scala media		<ul><li>(2) Scala tympani</li><li>(4) All the above</li></ul>						
80.	By the stimulation of (1) Basilar membrane (3) Meissner's membra	e	nan ear, the soimd wa (2) Tectorial membra (4) Sensory hair cells						
81.	Which of the followin (1) Incus	ng is not an ear ossicle (2) Malleus	? (3) Humerus	(4) Stapes					
82.	Cochlea arises from : (1) Utriculus (2) Sacculus		<ul><li>(3) Middle ear</li><li>(4) Semicircular cana</li></ul>	als					
83.	The other name of int (1) Utriculus (3) Sacculus	ternal ear is :	(2) Membranous laby (4) Ductus endolymp						
84.		atus contains the follow	wing gland:- (2) Lachrymal gland (4) Meibomian gland						
85.	<ul> <li>Which of the following statement is correct regarding "Structure of ear" ?</li> <li>(1) The ear ossicles increase the efficiency of transmission of sound wave.</li> <li>(2) Malleus is attached with oval window.</li> <li>(3) Eustachian tube connects middle ear cavity with larynx.</li> <li>(4) Middle ear contain three ear ossicles called malleus, incus and sphenoid.</li> </ul>								
86.	Otolith (otoconia) are (1) Perilymph	e CaCO <sub>3</sub> particles foun (2) Endolymph	d in:- (3) Bones	(4) Vitreous humor					
87.	Which of the followin (1) Incus	ng is anvil shaped ear o (2) Malleus	ossicle ? (3) Stapes	(4) Humerus					

88.	Which of the follo (1) Incus	wing is stirrup shaped (2) Stapes	ear ossicle? (3) Malleus	(4) Humerus						
89.	Fenestra ovalis is t (1) Cranium	he opening of:- (2) Tympanum	(3) Tympanic cavity	(4) Brain						
90.	In man the muscle (1) Absent	s which move the pinn (2) Vestigeal	ae are :- (3) Functional more	(4) Functional						
91.	The ear ossicles of (1) Auditory capsu	les	(2) External auditory	meatus						
92.	<ul> <li>(3) Tympanic cavity</li> <li>(4) Tympanic bulla</li> <li>The middle ear and internal ear of mammals are enclosed in which of the following bones ?</li> <li>(1) Mastoid</li> <li>(2) Ethmoid</li> <li>(3) Tympanic bulla</li> <li>(4) Tympanic bulla and periotic bone (temporal bone)</li> </ul>									
93.	The scala vestibuli (1) Ductus endoly (3) Ductus utriculi		(2) Helicotrema	a ty <mark>mpani th</mark> rough narrow canal called :- (2) Helicotrema (4) Sacculo utricular canal						
94.	Between malleus & (1) Synovial hinge (3) Pivot joint		(2) Synovial ball soci (4) Glinding joint	(2) Synovial ball socket joint (4) Glinding joint						
95.	Eye and ear are the (1) Teleoreceptor (3) Extero receptor		<ul><li>(2) Gustato receptor</li><li>(4) Intero receptor</li></ul>	· · · · · · · · · · · · · · · · · · ·						
96.	The tympanic cavi (1) Columella auri (3) Eustachian tub	S	<ul><li>(2) Middle ear</li><li>(4) Internal ear</li></ul>							
97.	One of the followi (1) Semicircular ca (3) Utriculus -& sa	-	<ul><li>(2) Cochlea - hearing</li><li>(4) All of the above</li></ul>	;						
98.	In the tympanic ca (1) Foramen rotun (3) Fenestra ovalis		e in which the stapes is fi (2) Foramen triosseur (4) Fenestra rotandus	m						
99.	Cochlea is mainly responsible for :(2) Hearing only(3) Both balancing and hearing(4) Perception of colour									
100.	The bone which is	in contact with fenest	ra ovalis is:-							

(1) Malleus (2) Incus (3) Stapes (4) None

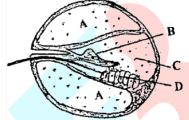
<b>101.</b> I	· · · · · · · · · · · · · · · · · · ·	<ul><li>(2) Stapes, Incus, Malleus</li><li>(4) Malleus, stapes, incus</li></ul>							
102.	Endolymph contains white crystals of CaCO (1) Otoconia (2) Otolith	3 called:-(3) Ear dust(4) All of the above							
103.	Which of the following is part of middle ear (1) Cochlea (3) Sacculus	? (2) Utriculus (4) Malleus							
104.	"Tensor tympani" & "Stapedius muscles" are (1) External ear (3) Internal ear	e found in:- (2) Middle ear (4) Exterrial auditory meatus							
105.	The organ of corti is a modification of:- (1) Tectorial membrane (3) Basilar membrane	<ul> <li>(2) Reissner's membrane</li> <li>(4) Meissner's membrane</li> </ul>							
106.	<ul> <li>Function of eustachian tube is to:</li> <li>(1) Provide air to the ear ossicles</li> <li>(2) Remove dirt from the middle ear</li> <li>(3) Keep middle ear in proper shape</li> <li>(4) To maintain proper air pressure in middle earand internal em for protecting them from damage by loud sound</li> </ul>								
107.	The damage to ear by sudden explosion (loud (1) Eustachian tube (3) Stapedius muscles	d sound) is prevented by :- (2) Tensor tympani muscles (4) All of the above							
108.		bles "snail shell" is called ;- (2) Membranous labirynth (4) Ear ossicles							
109.	The sound vibration are finally exhausted in: (1) Organ of corti (3) Fenestra ovalis	<ul><li>(2) Fenestra rotundus</li><li>(4) Tympanic membrane</li></ul>							
110.	Which of the following structure is not relate (1) Maculae (2) Crista	ed to body balance ? (3) Organ of corti (4) Ampulla							
111.	Scala media is present in - (1) Part of middle ear (3) Chamber of semicircular canal	<ul><li>(2) Cochlear canal</li><li>(4) Chamber which is related to perilymph</li></ul>							
112.	Ear dust is not situated in endolymph of - (1) Utriculus (3) Sacculus	<ul><li>(2) Ampulla</li><li>(4) Endolymphatic sac</li></ul>							

- 113. Body balance during dynamic condition is initiated by which structure 
  (1) Otoconia
  (2) Cupula
  (3) Stereocilia of crista
  (4) Kinocillium of maculae
- 114. Eustachian tube is related with 
  (1) External ear
  (2) Middle ear
  (3) Internal ear
  (4) Auditory canal

  115. Fluid present in the organ of corti is
- 116. Which of the following muscles are related with middle ear?
  (1) Tensor tympani
  (2) Stapedius
  (3) Both (1) and (2)
  (4) Extrinsic and intrinsic muscles

(2) Perilymph

117. Given below is a diagrammatic cross section of a single loop of human cochlea :-



Which one of the following options correctly represents the names of three different parts ?

- (1) D : Sensory hair cells, A : Endolymph B: Tectorial membrane
- (2) A: Perilymph, B : Tectorial membrane C : Endolymph
- (3) B : Tectorial membrane, C : Perilymph, D : Secretory cells
- (4) C : Endolymph, D : Sensory hair cells, A : Serum
- 118. Passage connecting middle ear with pharynx is called:-
  - (1) Cochlear canal

(1) Endolymph

(3) Tympanic canal

(2) Vestibular canal

(3) Cortilymph

(4) Plasma

(4) Eustachian canal

# **ANSWER KEY**

	EXERCISE-I (Conceptual Question)												
1.	(4)	2.	(1)	3.	(3)	4.	(3)	5.	(1)	6.	(2)	7.	(2)
8.	(4)	9.	(1)	10.	(2)	11.	(3)	12.	(1)	13.	(1)	14.	(3)
15.	(3)	16.	(2)	17.	(4)	18.	(2)	19.	(3)	20.	(1)	21.	(2)
22.	(3)	23.	(3)	24.	(1)	25.	(3)	26.	(4)	27.	(4)	28.	(2)
29.	(3)	30.	(2)	31.	(2)	32.	(3)	33.	(2)	34.	(3)	35.	(4)
36.	(3)	37.	(2)	38.	(4)	39.	(2)	40.	(1)	41.	(3)	42.	(2)
43.	(3)	44.	(3)	45.	(3)	46.	(1)	47.	(4)	<b>48.</b>	(2)	49.	(1)
50.	(3)	51.	(2)	52.	(1)	53.	(1)	54.	(3)	55.	(4)	56.	(4)
57.	(2)	58.	(2)	59.	(3)	60.	(1)	61.	(2)	62.	(4)	63.	(1)
64.	(4)	65.	(1)	66.	(4)	67.	(4)	68.	(4)	69.	(2)	70.	(3)
71.	(3)	72.	(2)	73.	(3)	74.	(2)	75.	(3)	76.	(1)	77.	(4)

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78.	(1)	79.	(4)	80.	(4)	81.	(3)	82.	(2)	83.	(2)	84.	(1)
85.	(1)	86.	(2)	87.	(1)	88.	(2)	89.	(3)	90.	(2)	91.	(3)
92.	(4)	93.	(2)	94.	(1)	95.	(1)	96.	(2)	97.	(4)	<b>98.</b>	(3)
<b>99.</b>	(2)	100.	(3)	101.	(2)	102.	(4)	103.	(4)	104.	(2)	105.	(3)
106.	(4)	107.	(1)	108.	(3)	109.	(2)	110.	(3)	111.	(2)	112.	(2)
113.	(2)	114.	(2)	115.	(3)	116.	(3)	117.	(2)	118.	(4)		