CERTIFICATE IN DISPENSING OPTICS (CDO)

Term-End Examination

00298

December, 2015

OAH-001: BASIC SCIENCE

Time: 90 Minutes Maximum Marks: 30

- Note: (i) There will be multiple-choice type of questions in this examination which are to be answered in OMR Answer Sheets.
 - (ii) All questions are compulsory.
 - (iii) Each question will have four options and only one of them is correct. Answers have to be marked in figures in the appropriate rectangular boxes corresponding to what is the correct answer and then blacken the circle for the same number in that column by using HB or lead pencil and not by ball pen in OMR Answer Sheets.
 - (iv) If any candidate marks more than one option, it will be taken as the wrong answer and no marks will be awarded for this.
 - (v) There will be 30 questions in this paper and each question carries one mark.
 - (vi) There will be no negative marking for wrong answers.
 - (vii) No candidate shall leave the examination hall at least for one hour after the commencement of the examination.

1.	A virtual image is formed if the object is located less than focal length from the concave mirror.								
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
2.	Ang	Angles measured clockwise from the optic axis are negative.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
3.		The amount of bending of the path of light in refraction, depends on the power of the two media.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
4.		A diverging lens is a lens which diverges rays of light which are travelling parallel to its principal axis.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
5.	The	The speed of the wave depends upon the optical density of that material.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
6.	The	The crystalline lens is enclosed in a highly elastic (flexible) capsule.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
7.	The	The eye is much optically inferior than the camera.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					

8.	k in a manner similar to a camera.								
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
9.	Optic disc is responsible for color vision.								
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
10.	The	The choroid also has a high concentration of a pigment called melanin in its cells.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
11.	The ratio of the image dimensions to the object dimensions is termed the magnification.								
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
12.	The light ray approaching the mirror is known as reflected ray.								
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					
13.	Wavelengths visible to the eye never pass through the optical window.								
	(1)	True	(2)	False					
	(3)	None of the above	. (4)	Can't say					
14.	A do	A double convex lens is symmetrical across both its horizontal and vertical axis.							
	(1)	True	(2)	False					
	(3)	None of the above	(4)	Can't say					

15.	There are eight extra ocular muscles, which controls the eye movement.							
	(1)	True	(2)	False				
	(3)	None of the above	(4)	Can't say				
16.	The eye is able to detect bright light or dim light.							
	(1)	True	(2)	False				
	(3)	None of the above	(4)	Can't say				
17.	Focal length is denoted by :							
	(1)	f	(2)	F				
	(3)	d	(4)	D				
18.	The	speed of the wave depends	upon the :					
	(1)	Optical density	(2)	Thickness				
	(3)	Velocity	(4)	Thinness				
19.	Leas	et dense material is :						
	(1)	Vacuum	(2)	Air				
	(3)	Glass	(4)	Plastic (CR39)	`			
20.	Index of refraction values, represented by the symbol is :							
	(1)	n	(2)	v				
	(3)	t	(4)	m				
21.	Whi	Which of the following is relevant to cornea?						
	(1)	Opaque	(2)	Transparent				
	(3)	Translucent	(4)	None of the above				
OA:	H-001		4		ртс			

P.T.O.

OAI	H-001	L · · ·	5		P.T.O.				
	(3)	Both (1) and (2)	(4)	None of the above					
	(1)	Cones	(2)	Rods					
28.	High	High resolution color imaging is provided by light sensor cells called :							
	(3)	850 to 950 nm	(4)	950 to 1000 nm					
	(1)	380 to 750 nm	(2)	750 to 850 nm					
27.	A typical human eye will respond to wavelengths in air from about :								
	(3)	Lacrimal	(4)	All of the above					
	(1)	Zeiss	(2)	Moll					
26.	Which gland provides large amount of tears?								
	(3)	Crystalline lens	(4)	All of the above					
	(1)	Cornea	(2)	Aqueous humor					
25.	The optical system of the eye consists of :								
	(3)	Optic nerve and optic disc	(4)	None of the above					
	(1)	Rods and cones	(2)	Macula and fovea					
24.	The retina contains two types of photoreceptors :								
	(3)	Non-illuminated objects	(4)	None of the above					
	(1)	Solid objects	(2)	Illuminated objects					
23.	Objects which are capable of reflecting light to our eyes are:								
	(3)	Focal point	(4)	None of the above					
	(1)	Radius of curvature	(2)	Center of curvature					
	/1 \	De diese of successions	(2)	Contour of assessment					

22. The distance from the vertex to the center of curvature is known as the :

29.	Outer	side	of th	ne s	sphere	is	silve	ered	in	:
-----	-------	------	-------	------	--------	----	-------	------	----	---

(1) Concave mirrors

(2) Convex mirrors

(3) Both (1) and (2)

(4) None of the above

30. The visual axis directly straight cut the :

(1) Fovea

(2) Retina

(3) Optic disc

(4) Choroid