CERTIFICATE IN DISPENSING OPTICS (CDO)

Term-End Examination June, 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.	The optical system of the eye consists of			
	(1)	Cornea		
	(2)	Aqueous humor		
	(3)	Crystalline lens		
•	(4)	All of the above		
2.	2. A virtual image is formed if the object is located less than one focal length from concave mirror.			
	(1)	True		
	(2)	False		
	(3)	None of the above		
	(4)	Can't say		
3.	Hig	h resolution color imaging is provided by light sensor cells called		
	(1)	Cones		
	(2)	Rods		
	(3)	Both cones and rods		
	(4)	None of the above		
4.	4. A diverging lens is a lens which diverges rays of light which are travelling paits principal axis.			
:	(1)	True		
	(2)	False		
	(3)	None of the above		
	(4)	Can't say		
5.	The	e distance from the vertex to the centre of curvature is known as		
	(1)	Radius of curvature		
	(2)	Centre of curvature		
	(3)	Focal point		
	(4)	None of the above		

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7.	The	cornea is elliptical in shape and is highly
	(1)	Opaque
	(2)	Transparent
	(3)	Translucent
	(4)	None of the above
8.	The	power of anterior surface of cornea is
	(1)	+ 48·83 D
	(2)	+ 40·00 D
	(3)	+ 10·00 D
	(4)	- 40·00 D
9.	Rain	nbows are formed by the dispersion of light by raindrops.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
10.	Sph	erical mirrors have an aberration.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
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The visual axis directly cuts the macula on the retina at

6.

(1)

(2)

(3)

Fovea

Retina

(4) Choroid

Optic disc

11.	Sph	erical mirrors have an aberration.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
12.		amount of bending of the path of light in refraction, depends on the power of the nedia.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
13.	A do	uble convex lens is a
	(1)	Converging lens
	(2)	Diverging lens
	(3)	Both (1) and (2)
	(4)	None of the above
14.	Cor	ea is the diaphragm which separates the anterior and posterior chambers.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
15.	The	distance of a real object is
	(1)	Negative
	(2)	Positive
	(3)	Both (1) and (2)
	(4)	None of the above

16.	The	eye is able to detect bright light or dim light.		·			
	(1)	True					
	(2)	False					
	(3)	None of the above		N.			
	(4)	Can't say					
17.	Opt	ic disc is responsible for color vision.	· .				
	(1)	True	•	•			
	(2)	False					
	(3)	None of the above					
	(4)	Can't say					
18.	There are eight extra ocular muscles, which control the eye movement.						
	(1)	True					
	(2)	False					
	(3)	None of the above					
	(4)	Can't say					
19.	In the case of an electromagnetic wave, the speed of the wave depends upon the optical density of the material.						
	(1)	True					
	(2)	False					
	(3)	None of the above			·		
	(4)	Can't say					
20.	A do	puble convex lens is symmetrical across both it	s horizont	al and vert	ical axis.		
٠	(1)	True					
	(2)	False					
	(3)	None of the above					
	(4)	Can't say					

21.	A ty	pical human eye will respond to wavelengths in air from about 80 to 50 nm.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
22.	Wav	elengths visible to the eye never pass through the optical window.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
23.	The	optic nerve consists of a bundle of about one million nerve fibers.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
24.	The	light ray approaching the mirror is known as reflected ray.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
25.		e angle between the reflected ray and the normal is known as the angle of ection.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say

26.	The ma _i	ratio of the image dimensions to the object dimensions is termed as iffication.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
27.	The two	mount of bending of the path of light in refraction, depends on the power of the nedia.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
28.	The	horoid 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
29.	The	ye is much inferior than the camera.
	(1)	Frue
	(2)	False
	(3)	None of the above
	(4)	Can't say
30.	Opti	disc is responsible for color vision.
	(1)	l'rue
	(2)	l'alse
	(3)	None of the above
	(4)	Can't say

SPACE FOR ROUGH WORK