

## INDIAN SCHOOL AL WADI AL KABIR

Class: X	Department: SCIENCE 2020 -2021 SUBJECT: PHYSICS  Topic: HUMAN EYE AND THE COLOURFUL WORLD PART I		Date of submission: 16.04.2020
MCQ Worksheet No:1			Note: A4 FILE FORMAT [PORTFOLIO]
NAME OF THE	ESTUDENT	CLASS & SEC:	ROLL NO.

## **OBJECTIVE TYPE QUESTIONS**

1.	The image formed by retina of human eye is		
	a. Virtual and erect	b. Real and inverted	
	c. Virtual and inverted	d. Real and erect	
2.	. The change in the focal length of human eye is caused due to		

a. Ciliary muscles

b. Pupil

c. Cornea

d. Iris

3. The least distance of distinct vision for a young adult with normal vision is

a. 25 m

b. 20 m

c. 25 cm

d. 20 cm

4. The persistence of vision for human eye is

a. 1/10th of a second

b. 1/16th of a second

c. 1/6th of the second

d. 1/18th of a second

5. The light sensitive cell present on retina and is sensitive to the intensity of light is:

a. Cones

b. Rods

c. Both rods and cones

d. None of these

6. The phenomena of light responsible for the working of the human eye is

a. Reflection

b. Refraction

c. Power of accommodation

d. Persistence of vision

7. The amount of light entering the human eye is controlled by

a. Ciliary muscles

b. Pupil

c. Cornea

d. Iris

8. The part of the eyes refracts light entering the eye from external objects?

a. Lens

b. Cornea

c. Iris

d. Pupil

9. Variation of focal length to form a sharp image on retina is called

a. accommodation

b. aperture

c. retina control

d. defect

10. In human eye,	, image is formed	
· ·	ind retina	b. in front of retina
c. on 1	retina	d. in between lens and retina
11. Light enters ey	e through a transparen	t membrane known as
a. com	nea b. pı	ıpil
c. retir	na d. ir	is
12. Colored portion	on of eye that controls	amount of light reaching retina is known as
a.com	iea	b.pupil
c. reti	na	d. iris
13. Human eye act	ts like a	
a.endo	oscope b.c	amera
c. teles	scope d.m	icrosope
14. A person cann	not see distinctly object	s kept beyond 2 m. This defect can be corrected by using a lens of
power		
(a) + 0	0.5 D (b) –	0.5 D
(c) + 0	0.2 D (d) –	0.2 D
15. When light ray	s enter the eye, most o	f the refraction occurs at the
(a) cry	ystalline lens	(b) outer surface of the cornea
(c) iris	S	(d) pupil
16. The focal leng	th of the eye lens incre	ases when eye muscles
(a) are	e relaxed and lens beco	mes thinner
(b) cor	ntract and lens become	s thicker
(c) are	relaxed and lens become	mes thicker
(d) cor	ntract and lens become	s thinner
17. Which of the f	following statement is o	correct?
(a) A p	person with myopia car	n see distant objects clearly
(b) A I	person with hypermetro	opia can see nearby objects clearly
(c) A p	person with myopia car	n see nearby objects clearly
(d) A 1	person with hypermetro	opia cannot see distant objects clearly
18. When we ente	er a cinema hall, we can	nnot see properly for a short time. This is because-
a) P	Pupil does not open	b) Pupil does not close
c) A	Adjustment of size of p	upil takes some time d) none of these above
19. Variable focal	length of eye is respon	sible for-
a) Ac	ecommodation of eye	b) Persistence of vision
•	olour blindness	d) Least distance of distinct vision
20. A concave lens	s of suitable focal leng	th is used for correcting a-
a) M	Iyopic eye	b) Hypermetropic eye
c) B	oth a and b	d) nor a nor b
21. A human eye o	can focus objects at dif	ferent distances by adjusting the focal length of the eye lens. This is
due to –		
` '	rsistence of vision	(b)Near sightedness
(c)Ac	ccommodation	(d)Far sightedness

22. Cinematography m	iakes use of -	
(a) Accor	nmodation	(b) Persistence of vision
(c) Least	distance of distinct vision	(d) Bi-focal lens system
23. Human eye forms t	the image of an object at its	S-
a. Cornea	b. Pupil	
c. Iris	d. Retina	
•	al length of an eye lens to for	ocus the image of objects at varying distances is done by the
action of the -		
(a)Pupil	(b)Retina	
	muscles (d)Blind spot	
25.A myopic person ca	· ·	
(a)Distan		ar objects
, ,	nd distant objects (d)Nor	ne of the above
26. A long-sighted pers	•	
(a)Near o		(b) Distant objects
` '	J	(d) None
27. A person having Pr	• •	
(a)Conve	x lens (b) Co	oncave lens
(c) Cylind	drical lenses (d) Bi	ifocal lenses
28. A person cannot se	e fundamental colours (red	, blue, green). This defect is called:-
(a) Myop	ia (b) Pr	resbyopia
(c) Color	ur blindness (d) As	stigmatic
29. The defect of astign	matism can be rectified by	using: -
(a)Conve	x lens (b) Cy	lindrical lens
(c) Conca	ive lens (d) Bi	focal lens
30.The term "accomme	odation" as applied to the e	eye, refers to its ability to:
a. Contro	l the light intensity falling of	on the retina
b.Erect th	ne inverted image formed or	n the retina
c.Vary the	e focal length of the lens	
d.Vary th	e distance between the lens	s and retina
31. How do you think	that the eye change inorder	to focus on near or distant objects?
a.The lens m	noves in or out	b. The retina moves in or out
	ecomes thicker or thinner	d. The pupil gets larger or smaller
32. A person cannot se	e the distant objects clearly	(though he can see the nearby objects clearly). He is
•	defect of vision called:	
a.Catara	ıct	b. Hypermetropia
c.Myopi		d. Presbyopia
33. A got his eye tested	d. The optician's prescription	on for the spectacles reads: Left eye: –3 D Right eye:
3.50 D The person i	is having a defect of vision	called:
a. Presby	•	. Myopia
c. Astigm	natism d	. Hypermetropia

34. A man finds it difficult to read the odometer on the dashboard of the car but is able to clearly read a distant road sign. Which of the following statement is correct about this man?

Discuss

150°

- a. The near point of his eyes has receded away
- b.The near point of his eyes has come closer to him.
- c.The far point of his eyes has receded away.
- d. The far point of his eyes has come closer to him.
- 35 .With both eyes open, a person's field of view is about:

90°
a. b.
180°
c. d.

36.

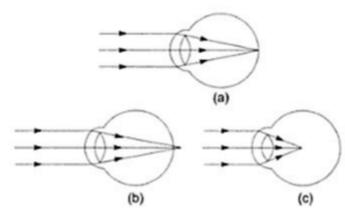


Figure a, b, c respectively; indicate the point in case of:

- a. The hypermetropic eye, the myopic eye and normal eye
- b. The normal eye, the myopic eye and hypermetropic eye
- c.The normal eye, the hypermetropic eye and myopic eye
- d. The myopic eye, the normal eye and hypermetropic eye
- 37 .The least distance of distinct vision for a young adult with normal vision is about

(a)25m (b)20cm (c)25cm (d)20m

38. The persistence of vision for normal eye is( in seconds)

(a) 1/16 (b) 1/8 (c) 1/5 (d) 1/12

## ANSWER KEY

1. B	20. A
2. A	21. C
2. A 3. C	22. B
4. B	23. D
5. B	24. C
6. B	25. A
/.	26. A
8. B	27. D
9. A	28. C
10. C	29. B
11. A	30. C
12. D	31. C
13. B	32. C
14. B	33. B
15. B	34. A
16. A	35. C
17. C	36. C
18. C	37. C
19. A	38. A

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