Revision Test – Light & Shadow

GIVE ONE WORD ANSWERS

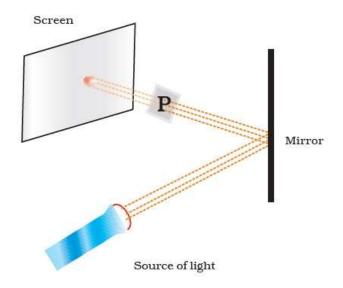
Q1. Can anything that travel faster than the speed of light? Yes or No
Q2. Are most objects around us luminous or non-luminous?
Q3. Are stars luminous or non-luminous?
Q4. A beam of light consists of several rays. True or False?
Q5. Which of these – a completely transparent object or a translucent object – will form a shadow?
Q6. Light is
a) visible and also makes objects on which it falls visible.
b) invisible but makes objects on which it falls visible.
c) invisible but becomes visible when it falls on an object.
d) sometimes visible and sometimes invisible but it always makes objects on which it falls visible.
Q7. The shape and size of a shadow depends on
a) the shape and size of the object
b) the position of the source of light
c) the distance between the source of light and object.
d) all of the above

Q8. Luminous bodies

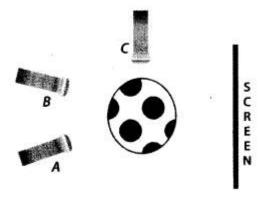
a) absorb light en	nergy		
b) emit light ener	гду		
c) are always a na	atural source		
d) are transparen	nt		
Q9. The property	of light travelling in a straight line	e is known as	
a) reflection	b) rectilinear propagation	c) rays	d) beam
Q10. Angle of ref	lection is		
a) the angle betw	een the incident ray and the norn	nal	
b) the angle betw	veen the incident ray and the refle	cted ray	
c) both a) and b)			
d) the angle betw	veen the reflected ray and the nor	mal	
	t safe to see the sun directly?		
	opaque strips with very small hole mage of the sun on a wall through	•	_
	e same or different?	these notes, will t	ne image formed by
	0 🔷		

Q13. Observe the picture given in Fig. 11.6. A sheet of some material is placed at position 'P', still the patch of light is obtained on the screen. What is the type of material of this

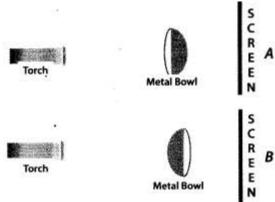
sheet?



Q14. Three torches A, B and C shown in figure are switched on one by one. The light from which of the torches will not form a shadow of the ball on the screen.



Q15. Look at the given figure.



Will there be any difference in the shadow formed on the screen in A and B?

Q16. On a sunny day, does a bird or an aeroplane flying high in the sky cast its shadow on the ground? Under what circumstances can we see their shadow on the ground?

Q17. Is air around us always transparent? Discuss.				
Q18. Three identical towels of red, blue and green colour are hanging on a clothesline in the sun. What would be the colour of shadows of these towels?				
Q19. Paheli observed the shadow of a tree at 8:00 a.m., 12:00 noon and 3:00 p.m. Which of the following statements is closest to her observation about the shape and size of the shadow? (a) The shape of the shadow of the tree changes but the size remains the same. (b) The size of the shadow of the tree changes but the shape remains the same. (c) Both the size and shape of the shadow of the tree change. (d) Neither the shape nor the size of the shadow changes.				
Q20. Which of the following can never form a circular shadow? (a) A ball (b) A flat disc (c) A shoe box (d) An ice cream cone				
Q21. Two students while sitting across a table looked down on to its top surface. They noticed that they could see their own and each other's image. The table top is likely to be made of (a) unpolished wood (b) red stone (c) glass sheet (d) wood top covered with cloth				
FILL IN THE BLANKS				

1. Objects which emit their own light are known as _______.

2.	objects from no shadow.
3.	Bouncing back of light from a surface is called is light.
4.	Pinhole camera is based on the principle of of light.
5.	Sun is a object whereas moon is a object.
6.	Glass is but plastic is
7.	Objects like eraser, plastic scale, pen, pencil, cloth are called objects.
8.	The shadow of an object is in color.
9.	Images are from shadows.
10	Shadows are formed when an object comes in the path of light.

TRUE OF FALSE

- 1. Glass is a transparent object.
- 2. Gold is a translucent metal
- 3. Images are also known as shadows.
- 4. A shining metal spoon is a plane mirror.
- 5. Translucent objects form a faint shadow.
- 6. Black thick paper is translucent.
- 7. The shadow of a colored object is also colored.
- 8. Images are very different from shadows.
- 9. The image of a red rose and a yellow rose is black in color.

MATCH THE FOLLOWING

- a) A body that allows light to pass through it
 b) A sheet of red cellophane
 ii) Non-luminous objects
 c) Bouncing back of light from a surface
 iii) Luminous body
 d) A body emitting its own light
 iv) Reflection
- e) Moon v) Transparent body

HOTS

Q1. The clock in Ritu's room in its mirror image showed as if the time is quarter past four. What is the actual time?

ANSWERS

GIVE ONE WORD ANSWERS
Q1. No
Q2. Non-luminous
Q3. Luminous
Q4. True, Ray is a single ray. Beam is a number of rays.
Q5. Translucent object.
Q6. A
Q7. D
Q8. B
Q9. B
Q10. D
Q11. Because it emits harmful and strong UV rays that can damage the retina.
Q12. Image formed will be same in all 3 cases
Q13. Transparent material
Q14. The light from torch C will not form a shadow of the ball on the screen. Torch C is parallel to the screen and light travels in straight line.
Q15. No, shadows formed on the screens A and B will be same.
Q16. Even on a sunny day, a bird or an aeroplane flying high in the sky does not cast its shadow on the ground. We can see their shadow on the ground only if they are flying very close to the ground. In this case, ground acts as screen.
Q17. Yes it is unless there is smoke or fog.
Q18. Same color
Q19. C
Q20. C
Q21. C

FILL IN THE BLANKS

- 1. Luminous
- 2. Transparent
- 3. Reflection
- 4. Rectilinear propagation
- 5. Non luminous
- 6. Transparent, translucent
- 7. Opaque
- 8. Black
- 9. Different
- 10. opaque

TRUE OR FALSE

- 1. True
- 2. False
- 3. False

Image	Shadow
Image is formed due to	Shadow is formed when
the reflection or	the light falls on an
refraction.	opaque object.
Image is seen when	
light comes from the	No light enters the eye
object after reflection or	from the shadow of the
refraction enters the	object.
observer's eye.	

Image gives more information such as colour, structure, etc. about the object.	Shadow does not provide any details about the object but it gives an idea about the shape of the object.
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- 4. False
- 5. True, Transparent and translucent objects form faint, fuzzy or colored shadows.
- 6. False
- 7. False
- 8. True
- 9. True

MATCH THE FOLLOWING

- a) v
- b) i
- c) iv
- d) iii
- e) ii