



## PHYSICS

# BOOKS - NAVNEET PHYSICS (MARATHI ENGLISH)

## LIGHT AND THE FORMATION OF SHADOWS

### Question Bank

1. Can we see anything in total darkness ?



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2. What helps us to see the objects around us ?



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3. What does the light in each one of the picture originate from ?



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4. In which objects do we see a reflection ?



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5. What is the difference between an object and its reflection ? What causes the difference ?



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6. Stand in front of a plane mirror and look at your image in it.

Raise your right hand. Which hand of the mirror image is raised ?



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7. Stand in front of a plane mirror and look at your image in it.

What change do you see in the image if you

decrease or increase your distance from the mirror ?



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**8.** Stand in front of a plane mirror and look at your image in it.

Is there any difference between your height and height of the mirror image ?



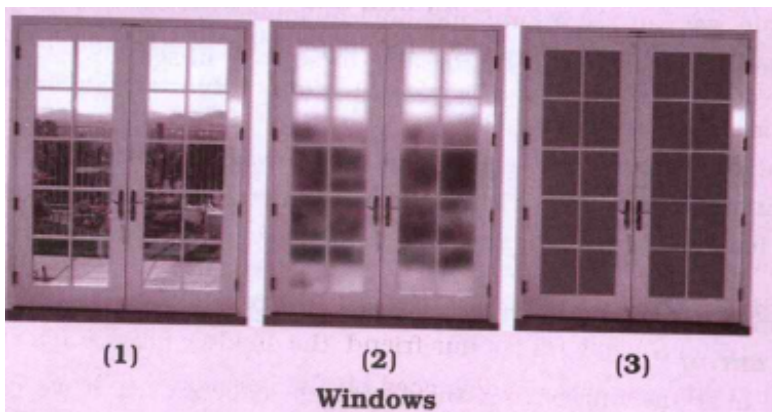
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9. Why is the image on the diaphragm of the pinhole camera inverted ?



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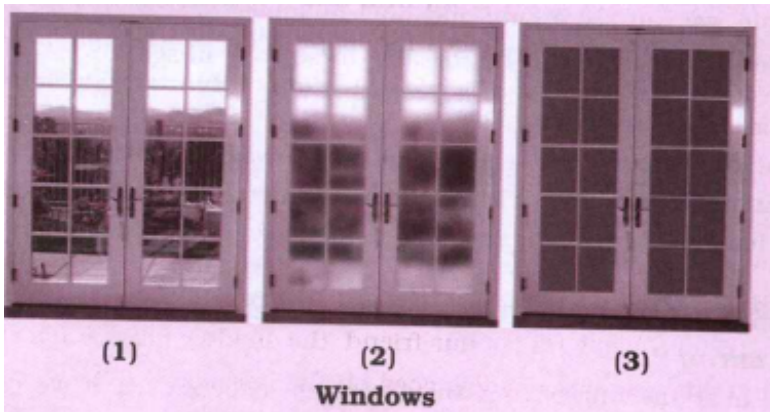
10. What difference do you notice on looking through the windows in the picture ? What causes the difference ?





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11. The picture show transparent, opaque, translucent window panes. Spot them.



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**12.** Take an electric torch. Flash its light on a wall. Now make your friend stand in between the torch and the wall. What happens ?



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**13.** Ask your friend to stand at a certain distance from you in a big room and obtain the shadow of your friend on the wall with the help of a torch. Now carry out the following actions. Observe and make a note of the



changes taking place in the shadows.

Send the friend closer to the wall.



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**14.** Ask your friend to stand at a certain distance from you in a big room and obtain the shadow of your friend on the wall with the help of a torch. Now carry out the following actions. Observe and make a note of the changes taking place in the shadows.

Ask the friend to come towards you.



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15. Ask your friend to stand at a certain distance from you in a big room and obtain the shadow of your friend on the wall with the help of a torch. Now carry out the following actions. Observe and make a note of the changes taking place in the shadows.

Next, you move further away from him and towards him again.



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**16.** Ask your friend to stand at a certain distance from you in a big room and obtain the shadow of your friend on the wall with the help of a torch. Now carry out the following actions. Observe and make a note of the changes taking place in the shadows.

Hold the torch high and then low.



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**17.** Ask your friend to stand at a certain distance from you in a big room and obtain

the shadow of your friend on the wall with the help of a torch. Now carry out the following actions. Observe and make a note of the changes taking place in the shadows.

Go toward the left and then to the right of the friend.



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**18.** A \_\_\_\_\_ is a natural source of light.



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19. A \_\_\_\_\_ is an artificial source of light.



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20. When a light passes through a prism. It gets separated into \_\_\_\_\_ colours.



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21. The image obtained in the pinhole camera is \_\_\_\_\_





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22. A shadow is formed when an \_\_\_\_\_ object comes in the way of light.



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23. When a \_\_\_\_\_ object comes in the way of light, light passes \_\_\_\_\_ it.



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24. Write whether the following objects are luminous or non-luminous.

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25. Match the columns :

Column 'A'	Column 'B'
(1) Mirror	(a) Non-luminous
(2) Firefly	(b) Inverted image
(3) Pinhole camera	(c) Reflection
(4) Moon	(d) Luminous

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**26.** Give meanings of / Write definitions :

Luminous objects :



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**27.** Give meanings of / Write definitions :

Non-luminous objects :



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**28.** Give meanings of / Write definitions :

Linear Propagation :



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**29.** Give meanings of / Write definitions :

Reflection of light :



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**30.** Give meanings of / Write definitions :

Transparent object :



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**31.** Give meanings of / Write definitions :

Translucent object :



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**32.** Give meanings of / Write definitions :

Opaque object :



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**33.** Find the odd one out :

A. Fireflies

B. Crows

C. Angler fish

D. Honey mushroom

**Answer: B**



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**34. Find the odd one out :**

A. Moon

B. Mars

C. Sun

D. Earth

**Answer: C**



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**35.** Find the odd one out :

A. Granite cladding of wall

B. Mirror

C. Clean and still water

D. Cardboard

**Answer: D**



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**36.** Find the odd one out :

A. Flame of the candle

B. Fireflies

C. Lantern

D. Electric bulb

**Answer: B**



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**37.** Write the answer to the following :

How do we come to know that light travels in a straight line ?



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**38.** Write the answer to the following :

Due to which property of a surface is image formed ?



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**39.** Write the answer to the following :

Describe the type of image seen in the mirror.



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**40.** Write the answer to the following :

Describe the type of image seen in the mirror.



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**41.** Write the answer to the following :

What is Newton's disc ? What do you come to know from Newton's disc ?



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**42.** What are the condition necessary for the formation of a rainbow?



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**43.** Write the answer to the following :

What are the factors on which the formation of a shadow depend ?



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**44.** Write the answer to the following :

What is shadow ?



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**45.** Use your brain power !

How will you light up a dark room using reflected light ?



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**46.** Use your brain power !

Try to start the TV by operating the remote control from behind it.



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**47.** Make a list of some luminous objects and substances and classify them into natural and artificial sources of light.



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**48.** Compare the objects in your environment with the shadows they form.



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**49.** On which surfaces can you see your reflection ?



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**50.** Which characteristics of surfaces are useful while forming an image ?



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**51.** Why do we see moonlight ?



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**52. When is National Science Day celebrated ?**

Why ?



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