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## PHYSICS

# BOOKS - PEARSON IIT JEE FOUNDATION 

## LIGHT

## Example

1. Give any two examples for the following terms.
(a) Homogenous opaque medium
(b) Heterogeneous transparent medium
(c) Homogeneous transparent medium
(d) Heterogeneous translucent medium

## - Watch Video Solution

2. How many Lumens make 37.68 candle power?

## D Watch Video Solution

3. Differentiate between homogeneous and heterogeneous mixtures with examples.

## - Watch Video Solution

4. When two mirroes are inclined at an angle of $60^{\circ}$ with each other, find the glancing angles and angle of deviations at both the mirrors if the
angle of incidence of a light ray is $45^{\circ}$. Draw its ray diagram.


## - View Text Solution

5. If the angle made by a light by plain of a plane mirror is $25^{\circ}$, then find the angle of reflection.
6. Vinay wrote the word 'REFLECTION' on a paper and placed it in front of a plane mirror (as shown in figure) and noticed how the letters of the word appear in the mirror. Write down the mirrow image of it.


## - Watch Video Solution

7. Find the value of $x$ in the adjoining figure.


## Watch Video Solution

8. Give any two examples for the following terms.
(a) Homogenous opaque medium
(b) Heterogeneous transparent medium
(c) Homogeneous transparent medium
(d) Heterogeneous translucent medium

## - Watch Video Solution

9. How many Lumens make 37.68 candle power ?

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10. Differentiate between homogeneous and heterogeneous mixtures with examples.
11. When two mirrors are included at an angle of $60^{\circ}$ with each other, find the glancing angles and angle of deviations at both the mirrors if the angle of incidence of a light ray is $45^{\circ}$. Draw its ray diagram .

12. If the angle made by a light by plane of a plane of a plabe mirror is $25^{\circ}$, then find the angle of reflection.

## - Watch Video Solution

13. Vinay wrote the word 'REFLECTION' on a paper and placed it in front of a plane mirror (as shown in figure) and noticed how the letters of the word appear in the mirror. Write down the mirrow image of it.

## REFLECTION



## - Watch Video Solution

14. Find the value of x in the adjoining figure.


## - Watch Video Solution

Very Short Answer Type Questions

1. $\qquad$ is a self-luminous body.
2. 

_____ is an example for a cold source of light.

## - Watch Video Solution

3. _____ gives light from its bio - chemical energy .

## - Watch Video Solution

4. Optical medium means $\qquad$ .

## - Watch Video Solution

5. An optically opaque body casts a $\qquad$ .

## - Watch Video Solution

6. _____ is a homogeneous medium.
7. 1 foot candle = $\qquad$ Lux.

## - Watch Video Solution

8. ____ is a transparent heterogeneous medium.

## - Watch Video Solution

9. _____ is a transparent homogeneous medium.

## - Watch Video Solution

10. $\quad$ is a translucent material.
11. A converging beam of light forms $\qquad$ image.

## - Watch Video Solution

12. A diverging beam of light forms $\qquad$ image.

## - Watch Video Solution

13. The size of image obtained by pinhole camera depends on $\qquad$ of camera.

## - View Text Solution

14. The nature of image obtained in pinhole camera is $\qquad$ .

## - View Text Solution

15. Occurrence of eclipse and formation of shadows are due to $\qquad$ .

## - Watch Video Solution

Select The Correct Alternative From The Given Options

1. Choose the biggest souce of light from the following .
A. Star
B. Earth
C. Moon
D. Glow-worm

## Answer: A

2. Pick out the object that obstructs light.
A. Ground glass
B. Glass
C. Water
D. Cloud

## Answer: D

## - Watch Video Solution

3. Find the odd one from the following.
A. Air
B. Oiled paper
C. Glass
D. Water

## Answer: B

## - Watch Video Solution

4. Choose the incorrect one form the following in case of a pinhole camera .
A. It works on the principle of rectilinear propagation of light
B. If the size of hole is decreased, then the image formed is more clear.
C. If the size of hole is increased, then the image becomes blurred due to supper-position of light.
D. Pinhole camera is also known as camera obscure (dark chamber).

## Answer: B

## - Watch Video Solution

5. Choose the correct one from the following.
A. Lunar eclipse occurs on full moon day.
B. Solar eclipse occurs on new moon day.
C. Umbra and penumbra are casted by an opaque object under the exposure of extended source of light.
D. All of the above

## Answer: D

## - View Text Solution

6. If angle fo incidence of a light ray on a plane mirror is $30^{\circ}$, then
A. The angle of reflection is $30^{\circ}$
B. The glancing angle of incidence is $60^{\circ}$
C. The angle of deviation is $120^{\circ}$
D. All of these

## Answer: D

7. Choose the incorrect one from the following .
A. Periscope forms a real image for a real object.
B. Periscope form a virtual image for a real object
C. Object distance equals to image distance for a plane mirror
D. Both (b) and (c)

## Answer: A

## - Watch Video Solution

8. The number of images formed by two plane mirrors inclined at $60^{\circ}$ of an object placed symmetrically between mirror is
A. 6
B. 36
C. 5
D. 4

## Answer: C

## - Watch Video Solution

9. If the object is placed at a distance of 10 cm from a plane mirror, then the image distance is $\qquad$ .
A. 20 cm
B. 5 cm
C. 10 mm
D. 10 cm

## Answer: D

10. Which of the following letters does not show lateral inversion in a plane mirror ?
A. E
B. 1
C. P
D. G

## Answer: B

## - Watch Video Solution

11. In a reflecting periscope, if a light ray is incident at $45^{\circ}$ angle at the first plane mirror, then the angle of deviation of light ray by the periscope is $\qquad$ .
A. $30^{\circ}$
B. $90^{\circ}$
C. $180^{\circ}$
D. zero

## Answer: D

## - Watch Video Solution

## Fill In The Blanks

1. Laws of reflection are applicable for $\qquad$ .

## - Watch Video Solution

2. Angle of deviation means $\qquad$ .
3. Angle of incidence means $\qquad$ .
4. Angle of reflection means $\qquad$ .

## - Watch Video Solution

5. Glancing angle of incidence means $\qquad$ .

Watch Video Solution
6. Glancing angle and angle of incidence are $\qquad$ angle.

## - Watch Video Solution

7. A plane mirror forms image.
8. When the two plane mirror are parallel to each other, then the number of images of an object placed between them is

## - Watch Video Solution

9. During reflection of light $\qquad$ , $\qquad$ and $\qquad$ remains constant but
$\qquad$ changes.

## - Watch Video Solution

10. The formula for angle of deviation, $\mathrm{d}=$ $\qquad$ .

## - Watch Video Solution

11. When two plane mirrors are at the angle ' $\theta$ ' with each other, the number of images formed are (formula) ____ for odd number of image,
$\qquad$ for even number of images.
12. When two plane mirrors are at right angle with each other, the number of image viewed is $\qquad$ .

Watch Video Solution
13. ____ invented the periscope .

## - Watch Video Solution

14. Reflection periscopes can be constructed by $\qquad$ mirrors.

## - Watch Video Solution

15. $\qquad$ phenomenon is used in a reflecting periscope.

## Short Answer Type Questions

1. What is an optical medium ? Explain the types in it with two examples based on the amount of light they allow through them.

## - Watch Video Solution

2. Pinhole camera

## - Watch Video Solution

3. Explain the types of eclipse.

## - Watch Video Solution

4. Assertion: Point sources form only umbra.

Reason : Umbra is formed due to the rectilinear propagation of light.
$A . A$ and $R$ are true and $R$ is the correct explanation of $A$.
B. $A$ and $R$ are true but $R$ is not the correct explanation of $A$.
C. A is false and $R$ is true.
D. Both $A$ and $R$ are false.

## Answer: A

## - Watch Video Solution

5. Match the entries of Column with those of Column B

6. Distinguish between shadow and image.

## - Watch Video Solution

7. What are the factors in which the image obtained by the pinhole camera depend ?

## - Watch Video Solution

8. Explain how an opaque paper can be made translucent.

## - Watch Video Solution

9. Explain the working of hurricane lamp ?
10. What is a shadow and why the house fly does not cast a shadow on the ground while flying ?

## - Watch Video Solution

11. Write the different case of a point and an extended source of light to cast only umbra for an opaque object.

## - Watch Video Solution

12. State the laws of reflection.

## - Watch Video Solution

13. Give the characteristics of image formed by a plane mirror.
14. Distinguish between real and virtual image with an example.

## - Watch Video Solution

15. List out the letters of the alphabet that do not show lateral inversion when viewed through a plane mirror.
16. Match the following .

|  | Column A |  | comin |
| :---: | :---: | :---: | :---: |
| (A) | A plane mirror | () (a) | Number of images formad |
| (B) | Principle used in a periscope | () (b) | Reflection of light |
| (C) | During reflection | () (c) | Shows hateral inversion |
| (D) | If $\theta=90^{\circ}$ between two plane mirrors, then | () (d) | Intensity changes |

## - Watch Video Solution

17. Why is the plane mirror inclined at $45^{\circ}$ in a periscope?

## - Watch Video Solution

18. Assertion: A plane mirror can form a real and inverted image.

Reason : A virtual image is always formed behing the plane mirror.
$A . A$ and $R$ are true and $R$ is the correct explanation of $A$.
B. $A$ and $R$ are true but $R$ is not the correct explanation of $A$.
C. A is false and $R$ is true.
D. $A$ is true and $R$ is false

## Answer: C

## - Watch Video Solution

19. Two plane mirrors are arranged perpendicular to each other . If a light ray is incident at $30^{\circ}$ on one of the plane mirrors of above arrangement, then find
(a) Angle of reflection at the second plane mirror.
(b) Angle of deviation at both the mirrors.
(c) Number of images that we can observe when one plane mirror is rotated by $30^{\circ}$ towards the other.
20. A cockroach is flying towards a plane mirror in perpendicular direction with a velocity of $4 \mathrm{~mm} s^{1}$. Find the speed of its image in the mirror and also find out the angle of incidence, angle of reflection and angle of deviation.

## - Watch Video Solution

21. Gopi and Bhasker arranged a pair of mirrors at an angle of $120^{\circ}$ and $30^{\circ}$, respectively. Who will observe more number of images, when an object is viewed through the mirrors at symmetric position?

## - Watch Video Solution

## Concept Application

1. A light ray is incident on a plane mirror making an angle of $90^{\circ}$ with the mirror's surface. The angle of reflection of the light is $\qquad$ .
2. Ashoke and Ravi stood before a plane mirror at a distance of 3 m from it. Ashok walked 5 steps towards the mirror, each step measuring 30 cm . Ravi walked 8 steps away from the mirror, each step measuring 25 cm . The distance between Ravi and the image of Ashoke in the mirror is $\qquad$ m.
A. 5.5 m
B. 4.5 m
C. 7.5 m
D. 6.5 m

## Answer: D

## - Watch Video Solution

3. A light ray is incident on a smooth reflecting surface making an angle of incidence 2i. If the angle of incidence is doubled, then the deviation of
the light ray is equal to $\qquad$ .
A. $90-40 i$
B. $90-2 \mathrm{i}$
C. 2 i
D. $180-8 \mathrm{i}$

## Answer: D

## - Watch Video Solution

4. Two plane mirrors $M$ and $M^{\prime}$ are arranged such that their reflecting surfaces face towards a common object placed between them and kaming an angle of $72^{\circ}$ with each other. The number of images of the object placed between the reflecting surfaces of the mirrors is $\qquad$ .
A. 3
B. 6
C. 5

## D. 8

## Answer: C

## - Watch Video Solution

5. A tall person ' $A$ ' and a short person ' $B$ ' stood before a plane mirror. ' $A$ ' stands 1.25 metres behind ' B '. If the distance between ' B ' and the plane mirror is 50 cm , then the distance between ' A ' and his image in the mirror is $\qquad$ .
A. 4 cm
B. 3.5 cm
C. 4.5 cm
D. 3.75 cm

## Answer: B

6. A light ray is incident on a plane mirror making an angle of $90^{\circ}$ with the mirror's surface. The angle of reflection of the light is $\qquad$ .

## Watch Video Solution

7. Ashoke and Ravi stood before a plane mirror at a distance of 3 m from it. Ashok walked 5 steps towards the mirror, each step measuring 30 cm .

Ravi walked 8 steps away from the mirror, each step measuring 25 cm . The distance between Ravi and the image of Ashoke in the mirror is $\qquad$ m.
A. 5.5 m
B. 4.5 m
C. 7.5 m
D. 6.5 m

## Answer: D

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A. $90-4 i$
B. $90-2 i$
C. 2 i
D. $180-8 i$

## Answer: D

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9. Two plane mirrors $M$ and $M^{\prime}$ are arranged such that their reflecting surfaces face towards a common object placed between them and kaming an angle of $72^{\circ}$ with each other. The number of images of the object placed between the reflecting surfaces of the mirrors is $\qquad$ .
A. 3
B. 6
C. 5
D. 8

## Answer: C

## D Watch Video Solution

10. A tall person ' $A$ ' and a short person ' $B$ ' stood before a plane mirror. ' $A$ ' stands 1.25 metres behind ' $B$ '. If the distance between ' $B$ ' and the plane mirror is 50 cm , then the distance between ' A ' and his image in the mirror is $\qquad$ .
A. 4 cm
B. 3.5 cm
C. 4.5 cm
D. 3.75 cm

## Answer: B

## D Watch Video Solution

## Assessment Test

1. Draw the diagrams of
(a) Ray of light
(b) Convergent beam of light
(c) Divergent beam of light
(d) Parallel beam of light

## - Watch Video Solution

2. Write the conditions to form a shadow.

## - Watch Video Solution

3. List out the difference between a point source and an extended source of light.

## - Watch Video Solution

4. According to Newton's theory of light the rectilinear propagation of light is due to

## - Watch Video Solution

5. Draw the ray diagram of a plane mirror that shows the image formation by an extended real object.

## - Watch Video Solution

6. What is lateral inversion ?
7. What are the applications of reflection of light ?

## - Watch Video Solution

8. Write the uses of plane mirror in our daily life.

## - Watch Video Solution

9. What is meant by lateral inversion ?

## - Watch Video Solution

10. Moon appears bright at night. Is it a luminous or non-luminous body ?
11. Classify the objects as opaque transparent and translucent :

Fog, glass, wood, plastic box, smoke, water

## Watch Video Solution

12. Why we cannot see our image in the mirror in complete dark room ?

## - Watch Video Solution

13. What is Umbra?

## - Watch Video Solution

14. What is an incandesncent body ? Given example.

## - Watch Video Solution

15. How will you convert a glass sheet into a translucent sheet ?

## - Watch Video Solution

16. Draw the diagrams of
(a) Ray of light
(b) Convergent beam of light
(c) Divergent beam of light
(d) Parallel beam of light

## - Watch Video Solution

17. Write the conditions to form a shadow.
18. List out the difference between a point source and an extended source of light.

## - Watch Video Solution

19. Mention in brief the applications and natural occurrences of rectilinear propagation of light.

## - View Text Solution

20. Draw the ray diagram of a plane mirror that shows the image formation by an extended real object.

## - Watch Video Solution

21. What is lateral inversion?
22. What are the applications of reflection of light ?

## - Watch Video Solution

23. Write the uses of plane mirror in our daily life.

## - Watch Video Solution

24. What is lateral inversion?

## - Watch Video Solution

25. Moon appears bright at night. Is it a luminous or non-luminous body ?
26. Classify the objects as opaque transparent and translucent :

Fog, glass, wood, plastic box, smoke, water

## Watch Video Solution

27. Why we cannot see our image in the mirror in complete dark room ?

## - Watch Video Solution

28. What is Umbra ?

## - Watch Video Solution

29. What is an incandesncent body ? Given example.

## - Watch Video Solution

30. How will you convert a glass into a translucent sheet ?

## - Watch Video Solution

## Crossword



## Across

4. Infinite number of images in formed when two plane mirrors placed
5. Magnification of cancave mirror when the object is placed at the centre
6. Example of hot source of light
7. Convex mirrror can form this image
8. Number of images formed when an object placed between two plane $m$
9. Image formed due to convergence of light

# Test Your Concepts Very Short Answer Questions 

1. ____ is a self-luminous body.

## - Watch Video Solution

2. $\qquad$ is an example for a cold source of light.

## - Watch Video Solution

3. 

______ gives light from its bio - chemical energy .

## - Watch Video Solution

4. Optical medium means $\qquad$ .
5. An optically opaque body casts a $\qquad$ .

## - Watch Video Solution

6. ___ is a homogeneous medium.

## - Watch Video Solution

7.1 foot candle = $\qquad$ Lux.

## - Watch Video Solution

8. _____ is a transparent heterogeneous medium.

## - Watch Video Solution

9. 

_____ is a transparent homogeneous medium.

## - Watch Video Solution

10. is a translucent material.

Watch Video Solution
11. A converging beam of light forms $\qquad$ image.

## - Watch Video Solution

12. A diverging beam of light forms $\qquad$ image.
13. The size of image obtained by pinhole camera depends on $\qquad$ of camera.

## - View Text Solution

14. The nature of image obtained in pinhole camera is $\qquad$ .

## - View Text Solution

15. Occurrence of eclipse and formation of shadows are due to $\qquad$ .

## - Watch Video Solution

16. Choose the biggest souce of light from the following.
A. Star
B. Earth
C. Moon
D. Glow -worm

## Answer: A

## - Watch Video Solution

17. Pick out the object that obstructs light.
A. Ground glass
B. Glass
C. Water
D. Cloud

## Answer: D

18. Find the odd one out from the following .
A. Air
B. Oiled paper
C. Glass
D. Water

## Answer: B

## - Watch Video Solution

19. Choose the incorrect one form the following in case of a pinhole camera .
A. It works on the principle of rectilinear propagation of light .s
B. If the size of hole is decreased , then the image formed is blurred.
C. If the size of hole is increased, then the image becomes blurred due to super-position of light.
D. Pinhole camera is also known as camera obsure (dark chamber ).

## Answer: B

## - Watch Video Solution

## Test Your Concepts Fill In The Blanks

1. Choose the correct one from the following .
A. Lunar eclipse occurs on full moon day .
B. Solar eclipse occurs on new mood day .
C. Umbra and penumbra are casted by an opaque object under the exposure of extended source of light.
D. All the above .

## Answer: D

2. Laws of reflection are applicable for $\qquad$ .

## - Watch Video Solution

3. Angle of deviation means $\qquad$ .

## - Watch Video Solution

4. Angle of incidence means $\qquad$ .

## - Watch Video Solution

5. Angle of reflection means $\qquad$ .

## - Watch Video Solution

6. Glancing angle of incidence means $\qquad$ .

## - Watch Video Solution

7. Glancing angle and angle of incidence are $\qquad$ angle.

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8. A plane mirror forms $\qquad$ image.

## - Watch Video Solution

9. When the two plane mirror are parallel to each other, then the number of images of an object placed between them is
10. During reflection of light $\qquad$ , $\qquad$ and $\qquad$ remains constant but changes.

## - Watch Video Solution

11. The formula for angle of deviation, $\mathrm{d}=$ $\qquad$ .

## - Watch Video Solution

12. When two plane mirrors are at the angle ' $\theta$ ' with each other, the number of images formed are (formula) $\qquad$ for odd number of image, ____ for even number of images.

## - Watch Video Solution

13. When two plane mirrors are at right angle with each other, the number of image viewed is $\qquad$ .
14. ____-_ invented the periscope .

## - Watch Video Solution

15. Reflection periscopes can be constructed by $\qquad$ mirrors.

## - Watch Video Solution

16. $\qquad$ phenomenon is used in a reflecting periscope.

## Watch Video Solution

17. If angle fo incidence of a light ray on a plane mirror is $30^{\circ}$, then
A. The angle of reflection is $30^{\circ}$
B. The glancing angle of incidence is $60^{\circ}$
C. The angle of deviation is $120^{\circ}$
D. All of these

## Answer: D

## - Watch Video Solution

18. Choose the incorrect one from the following .
A. Periscope forms a real image for a real object .
B. Periscope form a cirtual image for a real object .
C. Object distance equals to image distance for a plane mirror .
D. Both (b) and (c )

## Answer: A

19. The total number of images formed by two mirrors inclined at $120^{\circ}$ to each other is $\qquad$ .
A. 6
B. 36
C. 5
D. 4

## Answer: C

## - Watch Video Solution

20. If the object is placed at a distance of 10 cm from a plane mirror, then the image distance is $\qquad$ .
A. 20 cm
B. 5 cm
C. 10 mm
D. 10 cm

## Answer: D

## - Watch Video Solution

21. Which of the following letters does not show lateral inversion in a plane mirror ?
A. E
B. 1
C. $P$
D. G

## Answer: B

22. In a reflecting periscope, if a light ray is incident at $45^{\circ}$ angle at the first plane mirror, then the angle of deviation of light ray by the periscope is $\qquad$ .
A. $30^{\circ}$
B. $90^{\circ}$
C. $180^{\circ}$
D. zero

## Answer: D

## - Watch Video Solution

## Test Your Concepts Short Answer Type Questions

1. What is an optical medium ? Explain the types in it with two examples based on the amount of light they allow through them.
2. Pinhole camera

## - Watch Video Solution

3. Explain the types of eclipse.

## - Watch Video Solution

4. Assertion : Point sources form only camera .

Reason : Umbra is formed due to the rectilinear propagation of light .
A. A and $R$ are true $R$ is the correct explanation of $A$.
B. A and R are true but R is not the correct explanation of $A$.
C. $A$ is false and $R$ is true .
D. Both $A$ and $R$ are false .

## Watch Video Solution

5. Match the entries of Column with those of Column B

## Column A

(A) Mercury
(B) Firefly

## column :

() (a) Optical properties same throughout
() (b) Optically opaque

## Golumi A Column B

(C) Parallel beam () (c) The angle between light rays is zero
(D) Homogeneous () (d) Source of light

## - Watch Video Solution

6. Distinguish between shadow and image.
7. What are the factors in which the image obtained by the pinhole camera depend ?

## - Watch Video Solution

8. Explain how an opaque paper can be made translucent.

## - Watch Video Solution

9. Explain the working of hurricane lamp ?

## - View Text Solution

10. What is a shadow and why the house fly does not cast a shadow on the ground while flying ?
11. Write the different case of a point and an extended source of light to cast only umbra for an opaque object.

## - Watch Video Solution

12. State the laws of reflection.

## - Watch Video Solution

13. (a) What are the characteristics of an image formed by a plane mirror?
(b) Write few uses of plane mirror.

## - Watch Video Solution

14. Distinguish between real and virtual image with an example.
15. List out the letters of the alphabet that do not show lateral inversion when viewed through a plane mirror.

## - Watch Video Solution

16. Match the following .
(A) A plane mirror
()
(a) Number of im:
(B) Principle used in a periscope
()
(b) Reflection of
(C) During reflection ()
(D) If $\theta=90^{\circ}$ between two plane mirrors then
()
(c) Shows latera
(d) Intensity che

## - Watch Video Solution

17. Why is the plane mirror inclined at $45^{\circ}$ in a periscope ?

## - Watch Video Solution

18. Assertion: A plane mirror can form a real and inverted image.

Reason : A virtual image is always formed behing the plane mirror.

## - Watch Video Solution

19. Two plane mirrors are arranged perpendicular to each other . If a light ray is incident at $30^{\circ}$ on one of the plane mirrors of above arrangement, then find
(a) Angle of reflection at the second plane mirror.
(b) Angle of deviation at both the mirrors.
(c) Number of images that we can observe when one plane mirror is rotated by $30^{\circ}$ towards the other.

## - Watch Video Solution

20. A cockroach is flying towards a plane mirror in perpendicular direction with a velocity of $4 \mathrm{~mm} s^{1}$. Find the speed of its image in the mirror and
also find out the angle of incidence, angle of reflection and angle of deviation.

## - Watch Video Solution

21. Gopi and Bhasker arranged a pair of mirrors at an angle of $120^{\circ}$ and $30^{\circ}$, respectively. Who will observe more number of images, when an object is viewed through the mirrors at symmetric position?

## - Watch Video Solution

## Assessment Test Cross Word

1. Infinite number of images is formed when two plane mirrors placed

## - Watch Video Solution

2. Mgnification of concave mirror when the object is placed at the centre of curvature

## - Watch Video Solution

3. Examples of hot source of light

## - Watch Video Solution

4. Can a convex mirror form a real image! Explain.

## - Watch Video Solution

5. The number of images formed by two plane mirrors inclined at $60^{\circ}$ of an object placed symmetrically between mirror is

## ( Watch Video Solution

6. Image formed due to convergence of light

## - Watch Video Solution

7. These are formed due to rectilinear propagation of light

## - Watch Video Solution

8. This mirror forms laterally inverted image

## - Watch Video Solution

9. Which of the following is (are) natural source(s) of light?

## - Watch Video Solution

10. This mirror can form a diminished virtual image
11. Name the following:

The eclipse that takes place when earth comes between sun and moon

