

? Which of the following is not a source of light?

- A) Star
- B) Burning candle
- C) Lantern
- D) Torch
- E) None of these

? Which of the following is a man-made source of light?

- A) Sun
- B) Meteor
- C) Tube-light
- D) Star
- E) None of these

? Non-luminous objects are objects which:

- A) Produce their own light.
- B) Do not produce its own light.
- C) Can be seen only when light falls on them.
- D) Both [b] and [c]
- E) None of these

? A transparent object which is mostly used in windows of houses.

- A) Polythene

- B) Wood
- C) Glass
- D) Ground glass.
- E) All of these

? Speed of light in vacuum is:

- A) 3×10^8 km/h
- B) 3×10^8 m/s
- C) 3×10^8 m/h
- D) 3×10^8 m/s
- E) None of these

? Which of the following characteristics are observed in an image formed by a pinhole camera?

- A) Virtual image
- B) Real image
- C) Erect image
- D) Image of different colour
- E) None of these

? Which of the following is a translucent object?

- A) Cardboard
- B) Tracing paper
- C) Clear glass

- D) Air
- E) None of these

? Light travels in a:

- A) Circular path
- B) Rectilinear path
- C) Rotational path
- D) Triangular path
- E) None of these

? Which of the following is not a necessary condition for the formation of a shadow?

- A) An opaque object
- B) A screen
- C) A transparent object
- D) A source of light
- E) None of these

? Images of actors on screen in cinema halls are:

- A) Virtual image
- B) Real images
- C) Imaginary images
- D) All the above
- E) None of these

? We can see any object if:

- A) It is a luminous object.
- B) It reflects the light falling on it.
- C) It is placed in a dark room.
- D) Both [a] and [b]
- E) None of these

? Opaque objects:

- A) Allow light to pass through them.
- B) Allow light to pass through them partially.
- C) Allow light not to pass through them.
- D) Both [b] and [c]
- E) None of these

? A very narrow beam of light is called:

- A) Ray
- B) Beam
- C) Candela
- D) All the above
- E) None of these

? Which of the following images are real?

- A) Image formed on the screen of cinema hall.
- B) Image formed by a pinhole camera.

- C) Image formed by a concave mirror when object is placed at infinity.
- D) All the above
- E) None of these

☐ Narrow beam of light before reflection is known as:

- A) Reflected ray
- B) Incident ray
- C) Normal ray
- D) Reflection
- E) None of these

☐ We place an object X in between a reflecting surface and a screen Q, on which an image of X is formed. If a clear image of object X is formed on the screen Q, then which of the following properties is true for object X?

- A) Transparent
- B) Translucent
- C) Opaque
- D) All the above
- E) None of these

☐ In which of the following medium speed of light is maximum?

- A) In air

- B) In vacuum
- C) In glass
- D) In water
- E) None of these

? In a periscope two plane mirrors are fitted at its two ends in such a way that:

- A) They intersect each other.
- B) They are parallel to one another.
- C) They make an angle of 90° with each other.
- D) They make an angle of 30° with each other.
- E) None of these

? Which one of the following types of energy is required to see any non-luminous object?

- A) Light energy
- B) Heat energy
- C) Sound energy
- D) Wind energy
- E) None of these

? On the basis of above figure. Light from which source will form shadow on the screen S?

- A) Light source A
- B) Light source B

- C) Light source C
- D) All the above
- E) None of these

? Which of the following will produce the darkest shadow if the object is placed in front of a source of light?

- A) Glass window
- B) Butter paper
- C) Net cloth
- D) Wooden block
- E) None of these

? A burning candle is placed on a table. We can see the light of candle flame when we see it from:

- A) Bent tube by keeping only one eye open.
- B) Straight tube by keeping only one eye open.
- C) Spiral tube by keeping only one eye open.
- D) U-shape tube.
- E) None of these

? Rahul and Ravi are standing on the opposite sides of a closed door, both of them are able to see each other clearly. Which type of substance is used to make this door?

- A) Transparent
- B) Translucent
- C) Opaque
- D) All the above
- E) None of these

☐ Sunlight is entering from a window to a dark room, in which a table is placed. A shadow of the table was observed on the wall of the room. Match the following on the basis of above information:

- A) (i-D), (ii-A), (iii-C), (iv-B)
- B) (i-C), (ii-D), (iii-A), (iv-B)
- C) (i-B), (ii-A), (iii-C), (iv-D)
- D) (i-D), (ii-A), (iii-B), (iv-C)
- E) None of these

☐ _____eclipse occurs when the moon comes between the sun and earth.

- A) Lunar
- B) Solar
- C) Partial lunar
- D) Earth
- E) None of these

? A glass sheet is given to you. By which of the following methods, it can be converted into an opaque object without breaking?

- A) Combining another same glass sheet with the given glass sheet.
- B) Covering glass sheet with thin polyethylene bag.
- C) Applying black paint on both sides of it.
- D) All the above
- E) None of these

? Which of the following is a characteristic of a virtual image?

- A) It can be obtained on a screen.
- B) It is always inverted.
- C) It is always formed in front of the mirror.
- D) It is always erect.
- E) None of these

? Lunar eclipse occurs on ____ day.

- A) Partial moon
- B) Full moon
- C) New moon
- D) Crescent moon
- E) None of these

? Shape of a shadow depends on the:

- A) Colour of the opaque object.
- B) Shape of the screen.
- C) Shape of an opaque object.
- D) Colour of the screen.
- E) None of these

? Which of the following is used as a rear view mirror in vehicles?

- A) Concave mirror
- B) Convex mirror
- C) Converging mirror
- D) Plane mirror
- E) None of these

? An incident ray falling normally on a plane mirror then angle of incidence is:

- A) 0°
- B) 120°
- C) 90°
- D) 60°
- E) None of these

? The given figure is showing:

- A) Diverging mirror
- B) Converging mirror
- C) Converging lens
- D) Diverging lens
- E) None of these

? Which of the following is a characteristic of the image formed by plane mirror?

- A) Erect
- B) Virtual
- C) Same size as object
- D) All the above
- E) None of these

? Letter E is placed in front of plane mirror, how would its image look like and also name the phenomenon involved in this.

- A) E, Reflection
- B) , Lateral inversion
- C) E, Lateral inversion
- D) , Refraction
- E) None of these

? Solar eclipse can be seen on _____ day.

- A) Full moon

- B) New moon
- C) Crescent moon
- D) Gibbous moon
- E) None of these

? Which of the following characteristics of an image does not belong to convex mirror?

- A) Real image
- B) Virtual image
- C) Smaller image
- D) Erect image
- E) None of these

? Name the phenomenon due to which our right ear appears as left ear when we see our face in the mirror.

- A) Reflection
- B) Lateral inversion
- C) Eclipse
- D) Refraction
- E) None of these

? Look at the following figure and find out the angle of reflection.

- A) 30°
- B) 45°

- C) 90°
- D) 60°
- E) None of these

☐ Which of the following is not a primary colour of white light?

- A) Red
- B) Green
- C) Orange
- D) Blue
- E) None of these

☐ Wool is which type of medium?

- A) Transparent
- B) Translucent
- C) Opaque
- D) Optical
- E) None of these

ANSWER KEY

☐ Which of the following is not a source of light?

- E) None of these

? Which of the following is a man-made source of light?

- C) Tube-light

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- D) Both [b] and [c]

? A transparent object which is mostly used in windows of houses.

- C) Glass

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- B) 3×10^8 m/s

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? Which of the following is a translucent object?

- B) Tracing paper

? Light travels in a:

- B) Rectilinear path

? Which of the following is not a necessary condition for the formation of a shadow?

- C) A transparent object

? Images of actors on screen in cinema halls are:

- B) Real images

? We can see any object if:

- D) Both [a] and [b]

? Opaque objects:

- C) Allow light not to pass through them.

? A very narrow beam of light is called:

- A) Ray

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- B) Incident ray

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- A) Light energy

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- A) Light source A

? Which of the following will produce the darkest shadow if the object is placed in front of a source of light?

- D) Wooden block

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- A) Transparent

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- B) Solar

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- C) Applying black paint on both sides of it.

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- D) It is always erect.

? Lunar eclipse occurs on ____ day.

- B) Full moon

? Shape of a shadow depends on the:

- C) Shape of an opaque object.

? Which of the following is used as a rear view mirror in vehicles?

- B) Convex mirror

? An incident ray falling normally on a plane mirror then angle of incidence is:

- A) 0°

? The given figure is showing:

- B) Converging mirror

? Which of the following is a characteristic of the image formed by plane mirror?

- D) All the above

? Letter E is placed in front of plane mirror, how would its image look like and also name the phenomenon involved in this.

- C) E, Lateral inversion

? Solar eclipse can be seen on _____ day.

- B) New moon

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- A) Real image

? Name the phenomenon due to which our right ear appears as left ear when we see our face in the mirror.

- B) Lateral inversion

? Look at the following figure and find out the angle of reflection.

- B) 45°

? Which of the following is not a primary colour of white light?

- C) Orange

? Wool is which type of medium?

- C) Opaque

