Chapter 11. Light, Shadows And Reflections

Very Short Q&A:

Q1: What are luminous objects?

Ans: Objects that give out or emit light of their own are known as luminous objects.

Q2: Butter paper is ______object.(transparent/translucent/opaque)

Ans: Translucent

Q3: Give two examples of non luminous objects.

Ans: Chair and shoe

Q4: Give two examples of non luminous objects.

Ans: True

Q5: What type of object is said to be transparent?

Ans: If we are able to see clearly through an object, it is said to be transparent.

Q6: Give two examples of transparent objects.

Ans: Glass and water

Q7: Give two example of luminous object.

Ans: Sun and torch bulb

Q8: What are translucent objects?

Ans: There are some objects through which we can see but not clearly. Such objects are known as translucent objects.

Q9: Wooden piece is a ______object. (translucent/opaque)

Ans: Opaque



Q10: If we cannot see through an object at all, it is anobject.
Ans: Opaque
Q11: Give two examples of opaque objects.
Ans: Plastic box and wooden table
Q12: When are shadows formed?
Ans: Shadows are formed when an opaque object comes in path of light
Q13: The shadows can be seen only on a screen.(TRUE/FALSE)
Ans: True
Q14: By shadows, we may know about of object. (shape/size)
Ans: Shape
Q15: Why we should not look directly at sun?
Ans: We should not look directly at sun because that could be extremely harmful for the eyes.
Q16: Light ravels alongpath.
Ans: Straight
Q17: Mirror changes direction of light that falls on it.(TRUE/FALSE)
Ans: True
Q18: We can see our face in mirror because mirrorour face.
Ans: Reflects
Q19: Images are different from shadows.(TRUE/FALSE)
Ans: True
Q20:object makes shadows.
Ans: Opaque



Q21: Stars and sun aresource of light.
Ans: Natural
Q22:objects allows light to pass through them partially.
Ans: Translucent
Q23: Pinhole camera producesimage.
Ans: Inverted
Q24: A sheet of polythene isobject.(luminous/non luminous)
Ans: Non luminous
Q25: Shadows are of two kinds. What are they?
Ans: Umbra and penumbra.
Q26: Clean water is(transparent/translucent/opaque)
Ans: Transparent
Q27: Shadows are not cast by every type of object.(TRUE/FALSE)
Ans: True
Q28: Moon isbody.(Luminous/non luminous)
Ans: Non luminous
Q29: Air and water are a) Transparent and non luminous b) Opaque and non luminous. c) Translucent and non luminous.
Ans: a
Q30: What type of object is sheet of cellophane?(transparent/translucent/opaque)
Ans: Transparent

Q31: Moon reflects	_light that falls on it.
Ans: Sun	
Q32: Which of the following i	s not translucent:
a. Fogb. Notebookc. Smoked. Sheet of polythene	
Ans: b	
Q33:objects al	lows light to pass through them completely.

Short Q&A:

Ans: Transparent

Q1: What is the difference between transparent and translucent object?

Ans: If we are able to see clearly through an object, it is said to be transparent. Whereas there are some objects through which we can see but not clearly. Such objects are known as translucent objects.

Transparent objects allows light to pass through them completely whereas translucent objects doesn't allow light to pass through them completely.

Q2: What materials can be used to make a pinhole camera? How can it be used?

Ans: Pinhole camera can be made with simple material like cardboard, tracing paper etc. It can be used to image the sun and brightly lit objects.

Q3: Why is shadow formed when an opaque object comes in path of light?

Ans: Light travels in a straight line and when opaque object obstructs it, shadow is formed.

Q4: What is reflection?

Ans: When any surface reflects light without absorbing it, it is known as reflection.

Q5: Classify the objects as opaque, transparent and translucent-Fog, glass, wood, plastic box, smoke, water





Ans:

Transparent-glass and water. Opaque-wood and plastic box Translucent- fog and smoke

Q6: Why we cannot see our image in the mirror in complete dark room?

Ans: We cannot see our image in the mirror in complete dark room because there is no light to reflect.

Q7: Classify the following as luminous and non luminous object: Sun, moon, table, chair, stars

Ans:

Luminous –sun, stars Non luminous-moon, table, chair

Q8: What is the difference between luminous and non luminous objects?

Ans: Objects that give out or emit light of their own are known as luminous objects. For example candle, sun etc. Objects that cannot give out or emit light of their own are known as non- luminous objects. Such as chair, book etc.

Q9: Why we cannot see objects through T shaped or N shaped pipe?

Ans: We cannot see objects through T shaped or N shaped pipe because light travels through straight line.

Q10: What do we need to see an object?

Ans: To see an object, we need source of light, eyes and object. When light emitted by luminous body falls on an object, it is reflected back and received by our eyes. Then we see that object.

Q11: Give example of an object which is a) opaque and luminous b) translucent and luminous.

Ans: A) Sun b) flame of gas burner.

Q12: If moon is non luminous, how it appears bright in night?

Ans: Moon appears bright in night because it reflects sun light that falls on it.





Q13: What type of objects does not cast shadow and why is that?

Ans: Transparent and some translucent objects do not cast shadow because light passes through them.

Q14: Why polished surface cause glares in our eyes?

Ans: Polished surface cause glares in our eyes because they produce regular reflection of light.

Q15: Give two examples of each:

- a) Transparent and non luminous object
- b) Translucent and non luminous object.

Ans: a) Air and water b) polythene and smoke.

Q16: Which of these object can cast shadow: Paper, air, rock, glass, sun

Ans: Paper, rock and sun.

Q17: How is shadow formed?

Ans: When an object is placed in path of light, a dark portion is formed on the opposite side of object. This dark portion is shadow.

Q18: What is periscope?

Ans: Optical object by which we can see objects located above our line of sight.

Long Q&A:

Q1: Why can we see our image in the mirror?

Ans: Light rays reflected from parts of our body fall on mirror and are reflected back. When these reflected rays reach our eyes (reflected on our retina), we can see the image. Mirror has one surface painted so when we see the mirror light rays which reflect from our body not get pass through mirror.

Q2: What are transparent, translucent and opaque objects? Explain with example.





Ans: If we are able to see clearly through an object, it is said to be transparent. Example-Glass and water. There are some objects through which we can see but not clearly. Such objects are known as translucent objects. Example- tracing paper. If we cannot see through an object at all, it is an opaque object. Example -wood, plastic box etc.