



# PHYSICS

## BOOKS - TARGET PUBLICATION

### REFLECTION OF LIGHT

#### Exercise

1. Choose the correct alternative.

Rough surface reflects light\_\_\_\_\_.

A. regularly

B. irregularly

C. partially

D. internally

**Answer: B**



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**2. Choose the correct alternative.**

Maximum light is reflected from

A. unpolished surfaces as they absorb most of the incident light.

B. polished surfaces as they absorb most of the incident light.

C. polished surfaces as they absorb less light.

D. unpolished surfaces as they absorb less light.

**Answer: C**



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3. Choose the correct alternative.

The image formed by a \_\_\_\_\_ mirror is of the same size as the source.

A. convex

B. concave

C. plane

D. any spherical

**Answer: C**



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4. Choose the correct alternative.

The image of the mirror (object) kept at 10 cm in front of plane mirror will be obtained at the distance

- A. 5 cm behind the mirror
- B. 10cm behind the mirror
- C. 10cm before the mirror
- D. 5 cm before the mirror

**Answer: B**



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**5. Choose the correct alternative.**

The word \_\_\_\_\_ is written on an ambulance.

A. AMBULANCE

B. AMBULANCE

C. AMBULANCE

D. AMBULANCE

**Answer: A**



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**6.** Choose the correct alternative.

To get 5 multiple images \_\_\_\_\_, what should be the angle between two plane mirrors is increased.

A.  $60^\circ$

B.  $72^\circ$

C.  $90^\circ$

D.  $120^\circ$

**Answer: A**



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7. Choose the correct alternative.

The number of images\_\_\_\_\_, when the measure of the angle between the two mirrors is increased.

A. decreased



B. remains the same

C. increases

D. increases first then decreases

**Answer: A**



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**8.** Choose the correct alternative.

\_\_\_\_\_ image are obtained when the plane mirrors are kept parallel to each other.

A. 2

B. 4

C. 1

D. infinite

**Answer: D**



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**9. Choose the correct alternative.**

Radius of curvature of a spherical mirror is

A. Distance between centre of curvature and pole

B. distance between principal focus and pole.

C. half the focal length of the mirror.

D. distance between centre of curvature

**Answer: A**



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10. Choose the correct alternative.

In case of spherical mirror\_\_\_\_\_is always half of the radius of curvature of the mirror.

- A. focal length
- B. object distance
- C. image distance
- D. magnification

**Answer: A**



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**11.** Choose the correct alternative.

For virtual images height of the image is always \_\_\_\_\_.



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**12.** Choose the correct alternative.

Which of the following is used for drawing ray diagrams for image formation in a mirror?

A. Laws of refraction

B. Laws of reflection

C. Law of scattering

D. Both (A) and (B)

**Answer: B**



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**13.** Choose the correct alternative.

The image of a distant object is obtained at \_\_\_\_\_ of concave mirror.

A. Focus (f)

B. Centre of curvature (C)

C.  $2f$

D.  $2v$

**Answer: A**



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**14.** Choose the correct alternative.

Virtual image is obtained when the object is placed \_\_\_\_\_ with reference to concave mirror.

A. at infinite distance

B. at the focus

C. at the centre of curvature

D. between focus and pole

**Answer: D**



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**15.** Choose the correct alternative.

In parking spaces of malls, mirrors placed are of \_\_\_\_\_ type.



A. plane

B. convex

C. concave

D. any of the above

**Answer: B**



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**16.** Choose the correct alternative.

Which mirror is of different type?

A. Dentist's mirror

B. Mirror used in vehicle headlight

C. Rear view mirror of car

D. Solar cooker mirror

**Answer: C**



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**17. Define with diagram.**

Define radius of curvature of a spherical mirror with suitable diagram.



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**18.** Define with diagram.

Define principle focus of the convex mirror with diagram.



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**19.** Answer the following

State the relationship between object distance ( $u$ ), image distance ( $v$ ) and focal length ( $f$ ) of a

spherical mirror. What is this relationship known as?



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**20.** Answer the following

Obtain the relation between magnification ( $M$ ), produced by spherical mirror in terms of focal length of mirror ( $f$ ) when an object is placed at distance  $u$  forming an image at distance  $v$ .



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## 21. Give reasons

Why are the mirrors fitted on the outside of cars convex?



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## 22. Answer the following.

Complete the analogy:

Periscope: Plane mirror :: Street lights: .



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