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1. Focal length of plane mirror is

- a. **At infinity**
- b. Zero
- c. Negative
- d. None of these

2. The speed of light is \_\_\_\_\_ in vacuum.

- a.  $3 \times 10^5$  m/s
- b.  **$3 \times 10^8$  m/s**
- c.  $3 \times 10^8$  km/s
- d.  $3 \times 10^6$  m/s

3. Image formed by plane mirror is

- a. Real and erect
- b. Real and inverted
- c. **Virtual and erect**
- d. Virtual and inverted

4. If magnification is +1.5, the image is \_\_\_\_\_.

- a. **Erect**
- b. Diminished
- c. Real
- d. Inverted

5. A concave mirror gives real, inverted and same size image if the object is placed

- a. At F
- b. At infinity
- c. **At C**
- d. Beyond C

6. According to the sign convention, the distance of object...

a. Is always positive

**b. Is always negative**

c. May be positive or negative

d. Is equal to object height

7. Power of the lens is -40, its focal length is

a. 4m

b. -40m

**c. -0.25m**

d. -25m

8. Absolute refractive index of any medium is always \_\_\_\_\_.

a. 1

**b. > 1**

c. < 1

d. 0

9. A concave mirror gives virtual, refract and enlarged image of the object but image of smaller size than the size of the object is

a. At infinity

b. Between F and C

**c. Between P and F**

d. At E

10. Which of the following is a true statement?

a. The power of a lens is always positive.

b. The power of a lens is always negative.

**c. The power of a convex lens is positive.**

d. The power of a concave lens is positive.