

# HOME ASSIGNMENT

04/12/21  
HLL

① Image formed by mirrors are both real & virtual

(A) real only

(B) Virtual only

(C) both real and virtual

(D) neither real nor virtual

② On refraction through a parallel faced glass slab the emergent ray is - both (A) & (B)

(A) Parallel to incident ray

(B) displaced w.r.t. incident ray.

(C) is not displaced w.r.t. incident ray

(D) both (A) and (B)

③ If the angle of incidence is  $50^\circ$ , then calculate the angle between incident ray and the reflected ray. ( $50^\circ + 50^\circ = 100^\circ$ )

(A)  $50^\circ$  (B)  $100^\circ$  (C)  $130^\circ$  (D)  $80^\circ$

④ The angle of refraction of a ray of light going from denser to rarer medium is less than angle of incidence - never

- (A) always
- (B) Sometimes
- (C) under special conditions
- (D) never

⑤ Name the type of mirror used as a backview mirror - Convex mirror

- (A) Plane Mirror
- (B) Concave Mirror
- (C) Convex Mirror
- (D) any of these

⑥ In air all colours propagate -

- (A) with different speed
- (B) nearly same speed
- (C) with minimum speed of red colour.
- (D) with maximum speed of violet colour.

Q Match the following :-

Column-I

- (A) The line joining the centre of curvature of the two surfaces of a lens.
- (B) A ray of light, passing through it, does not change its path after refraction through a lens.
- (C) Real, inverted image of the same size as the object.
- (D) A virtual, erect and diminished image for all positions of the object.
- (P) Object at the 2F object.
- (Q) Concave lens
- (R) Principal axis
- (S) Optical centre

Answer

Column-I

Column-II

(A)  $\longleftrightarrow$

(S)

(B)  $\longleftrightarrow$

(R)

(C)  $\longleftrightarrow$

(P)

(D)  $\longleftrightarrow$

(Q)