DPP NO. 5 TOPIC : LIGHT											
1.	Lateral shift varies inve										
	(A) wavelength	(B) refractive index	(C) incident angle	(D) none of these							
2.	The velocity of light in air and glass is $3 \times 10^8$ m/s and $2 \times 10^8$ m/s respectively. What is the R.I. of gla air:										
	(A) 1.3	(B) 1.4	(C) 1.5	(D) 6							
3.	Four students showed slab :	Four students showed the following traces of the path of a ray light passing through a rectangues a stangues of the path of a ray light passing through a rectangues and the path of a ray light passing the path of a ray light passing through a ray light passing through a ray light passing through a ray light passing the path of a ray light passing through a ray light passing the passing the passing through a ray light passing the									
	(a)	(b)	(C)	(d)							
	The trace most likely t	o be correct is that of stu	udent								
	(A) a	(B) b	(C) c	(D) d							
4.	In which figure lateral o glass slab :	displacement will be larg	er if a ray of light of same	e wavelength is incident on a plane							
		(B)	(C)t	(D) Same in all cases							
5.	The height through wh (A) normal shift	ich an object appears to (B) lateral shift	be raised in a denser me (C) red shift	edium is called : (D) blue shift							
6.	R.I. of air is : (A) 2	(B) 1	(C) 1.13	(D) 1.5							
7.	The perpendicular dist	ance between the incide	ent and emergent rays, w	hen light is incident obliquely on a							
	refracting slab with part (A) normal shift	rallel faces is called : (B) lateral shift	(C) red shift	(D) blue shift							
8.	For the figure given below which of the following statements is correct : (A) $\angle i_1 = \angle r_2$ (B) $\angle i_1 \neq \angle r_2$ (C) Incident and emergent rays are parallel (D) Both A and C are correct										
9.	According to the princi	ple of reversibility of ligh	t.	lateral displacement							
	(A) $_{1}\mu_{2}=_{2}\mu_{1}$	(B) $_{1}\mu_{2} = \frac{1}{_{2}\mu_{1}}$	(C) both A & B	(D) none of these							
10.	Scattering is also a typ (A) Regular reflection		(C) Diffused reflection	(D) Interference							
11.	What do you mean by	lateral displacement?									
12.	State the principle of re	eversibility of light.									
13.		Find the refractive index of a material if angle of incidence of ray of light is 45° and angle of refraction in the									
14.	•	With respect to air the refractive indices of water and benzene are 1.33 and 1.50 respectively. Calculate the refractive index of benzene with respect to water.									
15.	What is the major diffe	rence between a concav	e and a convex lens?								

## **Answers Key**

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1.	А	2.	С	3.	В	4.	А	5.	А	6.	В	7.	В
8.	D	9.	В	10.	С	13.	$\sqrt{2}$	14.	1.12				