PHYSICAL SCIENCE SET-02 CLASS-10

SLIP TEST- 5

CHAPTER-5: REFRACTION OF LIGHT AT PLANE SURFACES

Name:		Section:	ection: Roll No:		Max.Marks:20		
l. Answer the following questions. Each carries four marks.					2 x 4 = 8 M		
1) What is the reas	son behind the	shining of di	amonds? How	do you apprecia	ıte it?		
2) What is total into	ernal reflection	? Write some	e applications o	of total internal re	eflection		
in our daily life.							
II. Answer the following questions briefly. Each carries two marks.					2 x	$2 \times 2 = 4 M$	
3) The absolute re	fractive index of	of a substanc	e is 2. Find the	critical angle?			
4) A friend is stand	ling on the edg	e of a swimn	ning pool. You	are swimming in	the poo	l.	
Do you find you	r friend taller or	shorter?					
III. Answer the fol	llowing in one	or two sent	tences. Each d	carries one mar	ks. 2 x	1 = 2 M	
5) Define relative r	efractive index		`				
6) Which is denser	medium? Eith	er "A" or "B"	? A				
			В				
IV. Choose the correct choice and write down in the given brackets.					6 x	1 = 6 M	
7) Refractive index	of Air	TITE	PHYS		[]	
A. 1.0003	B. 1.31	U	C. 1.44	D. 2.42			
8) The refractive s	ubstances are	* 3	*		[]	
A. Opaque subs	stances	12.5	B. Transpare	ent substances			
C. Mirrors		WK.	D. None of the	ne above			
9) Velocity of light	is less in	ignitephysi	cs.weebly.com		[]	
A. Denser medium			B. Rarer medium				
C. Can not say	C. Can not say			ne above			
10) Snell's law					[]	
A. n_1 . Sin $i = n_2$.	A. n_1 . Sin i = n_2 . Sin r		B. n_2 . Sin i = n_1 . Sin r				
$\mathbf{C.} \frac{n_1}{n_2} = \frac{\sin i}{\sin r}$			$\mathbf{D.} \; \frac{n_2}{n_1} = \frac{\sin r}{\sin i}$				
-	in vocuum io				r	1	
11) Speed of light A. 2 x 10 ⁸ m/s	in vacuum is		B. 3 x 10 ⁸ m/	/o	L	1	
C. 1 x 10 ⁸ m/s			D. 3 x 10 m/				
	0.4			S	r	,	
12) Refractive ind	ex =ss of glass slab			f glass slab+vertica	l l chift]	
	ass slab+vertical s	<u>hift</u>	B. Thickness of	kness of glass slab			
Thickness	ss of alass slah		Thickness of	glass slab-vertical	shift		
C. Thickness of all	ss of glass slab ass slab–vertical si	 hift	D. Thick	ness of glass slab	311111		

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