PHYSICAL SCIENCES CLASS-10

## SLIP TEST- 6

## CHAPTER- 6: REFRACTION OF LIGHT AT CURVED SURFACES

Name:	Section: Roll No	: Max.Ma	rks:20
I. Answer the following qu	uestions. Each carries four mark	s. 2 x 4	l = 8 M
1) Define a lens. Name diffe	erent types of lenses. Draw the diag	grams.	
2) If an object placed at a c	entre of curvature on the principal	axis of a convex lens,	
where will be the image f	formed? Explain with a neat ray dia	gram. Also write the	
character of the image.			
II. Answer the following q	uestions briefly. Each carries tw	o marks. 2 x 2	2 = 4 M
3) Write the lens maker's fo	ormula. Explain the terms in it.		
4) What is the focal length	of double concave lens kept in air v	vith two spherical surface	∋s
of radii R <sub>1</sub> = 30cm and R <sub>2</sub>	2= 60cm. Take refractive index of le	ns as n=1.5	
III. Answer the following i	in one or two sentences. Each ca	rries one marks. 2 x 1	= 2 M
5) Define the focus of a len	s		
6) Complete the refracted r	ay in the figure.		
	E PL		
IV. Choose the correct ch	oice and write d <mark>own</mark> in the given	brackets. 6 x 1	= 6 M
7) Which one of the following	ng materials can <mark>not be</mark> used to mak	te a lens?	[ ]
A. water B. glas	ss * C. plastic * [	<b>).</b> clay	
8) Which of the following is	true?		[ ]
A. the distance of virtual	image is always greater than the o	bject distance for convex	k lens
B. the distance of virtual	image is not greater than the object	t distance for convex ler	าร
C. convex lens always for	orms a real image		
D. convex lens always for	orms a virtual image		
9) Focal length of the Planc	o-convex lens whose refractive inde	ex is 'n' and its radius of	
curvature of the surface	is 'R'		[ ]
<b>A.</b> $f = R$ <b>B.</b> $f = R$	R/2 <b>C.</b> $f = R/(n-1)$	<b>D.</b> $f = (n-1)/R$	
<b>10)</b> $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$ This for	mula is		[ ]
A. Mirror formula	B. Lens formula		
C. Lens maker's formul	a <b>D.</b> Refraction formula at cur	ed surfaces	
11) Which of the following	can acts as converging lens		[ ]
A. Biconvex lens	B. Plano-convex lens		
C. Concavo convex len	s <b>D.</b> All of the above		
12) The light ray gets refra	cted twice through glass slab. The	perpendicular distance	
between incident ray a	nd final emergence ray is called		[ ]
A. Reflection	<b>B.</b> Refraction		_
C. Lateral shift	<b>D.</b> Angle of deviation		
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