3. Refraction of Light at Plane Surfaces

1.	Speed of light in vacuum is									
2.	Mirage is an example of									
3.	is the basic principle of optical fibre.									
4.	The unit of refractive index is									
5.	The angle of refraction for critical angles is									
6.	The critical angle of diamond is									
7.	Refractive index of glass is 3/2. Then the speed of light in glass is									
8.	$n_1 \sin i = n_2 \sin r$ is called									
9.	A lemon kept in a glass of water appears to be									
10	.Refractive inc	dex of water	is							
11	.Speed of light	t of a mediu	m depends	upon	of the med	dium ()			
	a) Medium	b) Optical	Density	c) Mate	erial	d) Volum	ne			
12	.Speed of light	t in vacuum	is nearly eq	jual to		()			
	a) 2×10^8 m/se	ec b) 0	$.3 \times 10^8$ m/se	c c) 3×10	08 m/sec	d) 4×10^8	m/sec			
13	.The critical a	()							
	a) 24.8°	b) 24.4°	c) 2	23.4°	d) 22	2.4°				
14	.The angle of	()							
	a) 60°	b) 90°	c) 8	80°	d) 45	5°				
15	.In a glass slab	o, refraction	takes place	times	S	()			
	a) 5	b) 2	c) 3	3	d) 4					
16	.The brilliance)								
a) Refraction b) Refl			ection c) Interference		d) Total internal Reflection					
17	.Refractive inc	dex of a med	dium depend	ds on		()			
	a) Nature of material b) Wavelength of light used									
	c) a and b		d) None							

18. When light ray travels from denser to rarer medium, the relation between r and i is											
				()						
a) $r = i$	b) $r > i$	c) $r < i$	d) $r \ge i$								
19.A lemon kept	in a glass of	e	()							
a) Bigger		b) Smaller									
c) Same size		igger Sometime	es Smaller								
$20. \ \frac{n_2}{n_1} = \frac{\sin i}{\sin r} \text{ is c}$	alled		()							
a) Snell's law b) Boyle's law c) Pascal's law d) Graham's law											
<u>Answers</u>											
1) 3×10^8 m/sec	2) Total Inte	ernal Reflection	3) Total internal Reflection								
4) No units	5) 90°		6) 24.4°								
7) 2×10^8 m/sec 8) Snell's la		W	9) Bigger								
10) 1.33. 11) b			12) c								
13) b	14) b		15) b								
16) d 17) c			18) b								
19) a	20) a										