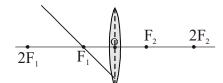


Std ·	Science X <sup>th</sup> - CBSE	Que 10. Light Re	estion Pa	-		Marks : 30 Time : 1 Hour
<b>biu.</b> .				u NUI AUIVII		
			CTION (A)			(Each - 1 Mark)
Q.1 :		strikes a plane mirro hen strikes a second				
	The angle of reflec	ction at the second n	airror is :			
	a) $30^{\circ}$	b) 45°	c)	60°	d)	90 <sup>0</sup>
			OR			
		asses from a medium the boundary of me			fractic	n of light occurs if
	a) $120^{\circ}$	b) $90^{\circ}$	c)	45°	d)	00
Q.2 :	What is the position	on of the object if a c	concave mirro	or produces a mag	nificat	tion of +4?
			OR	<i>i</i>		
	ray and the emerge	e and measures the pent ray.		i	en the	extended incident
	He will observ	e that :		× FIT	``	
	a) 'I' keeps on increasing with increase in angle of incidence					
	b) T keeps on decreasing with increase in angle of incidence					
	c) T keeps the same for all three angle of incidence					
			8			
			0	than this value fo	r∠i =	= 30 <sup>°</sup> and $\angle i = 60^°$ .
	d) 'I' is the ma For question nu other labeled Re		5 <sup>°</sup> and is less statement ar	e given one labe	eled A	ssertion (A) and
Ś	d) 'I' is the ma For question nu other labeled Re (a), (b), (c) and (d	aximum for $\angle_i = 4$ mber 3 to 5 two s eason (R) select the	5° and is less statement ar e correct ans	e given one labe swer to these qu	eled A estion	ssertion (A) and
3	<ul> <li>d) T is the ma</li> <li>For question nu</li> <li>other labeled Re</li> <li>(a), (b), (c) and (a)</li> <li>a) Both A and R a</li> </ul>	aximum for $\angle_i = 4$ mber 3 to 5 two s eason (R) select the d) as given below	5° and is less statement ar e correct ans rect explanati	e given one labe swer to these qu ion of the assertio	eled A estion n.	ssertion (A) and s from the codes
5	<ul> <li>d) T is the ma</li> <li>For question nu</li> <li>other labeled Re</li> <li>(a), (b), (c) and (a)</li> <li>a) Both A and R a</li> </ul>	aximum for $\angle i = 4$ mber 3 to 5 two s eason (R) select the d) as given below are true and R is cor- are true but R is not	5° and is less statement ar e correct and rect explanation the correct explanation	e given one labe swer to these qu ion of the assertio	eled A estion n. ssertic	ssertion (A) and s from the codes
Q.3 :	<ul> <li>d) T is the ma</li> <li>For question nu</li> <li>other labeled Re</li> <li>(a), (b), (c) and (d)</li> <li>a) Both A and R a</li> <li>b) Both A and R a</li> <li>c) A is true but R</li> </ul>	aximum for $\angle i = 4$ mber 3 to 5 two s eason (R) select the d) as given below are true and R is cor- are true but R is not	5° and is less statement ar e correct and rect explanation the correct ex d)	e given one labe swer to these qu ion of the assertio planation of the a A is false but R is	eled A estion n. ssertic true.	ssertion (A) and s from the codes on.

- Q.4: Assertion(A): Light travels faster in glass than in air. Reason (R): Glass is denser than air.
- Q.5: Assertion(A): The emergent ray is parallel to the direction of the incident ray.
   Reason (R): The extent of bending of the ray of light at the opposite parallel faces (air-glass interface and glass-air interface) of the rectangular glass slab is equal and opposite.
- Q.6: State a condition for no refraction of light entering from one medium to another.

OR

Redraw the ray diagram given below and complete the path of ray.



Q.7: Observe the following diagram and answer any two questions from 5(i) to 5(iii)

