



Q.14	The mirrors are perpendicular to each other as shown in the Fig. A light ray AB is incident on the mirro											
	$M_1$ . Then the reflected ray will also suffer a reflection from the mirror $M_2$ . Then the final ray after											
	reflection from $M_2$ will be parallel to the incident ray, if -											
	B Di											
	$M_2$ (1) i = 45° (2) i = 60° (2) i = 20° (4) for any i between 0° (4)											
	$(1) = 45^{\circ}$	$(2) = 60^{\circ}$	(3) 1 < 30°	(4) for any i between 0° and 90°								
Q.15	In the phenomeno	n of reflection										
	(1) velocity change	S	(2) frequency chan	(2) frequency changes								
	(3) wavelength cha	inges	(4) phase may or m	(4) phase may or may not change								
Q.16	A man moves towards a plane mirror with a velocity v in a direction making an angle $\theta$ with the normal to the mirror. The magnitude of velocity of the image relative to man normal to mirror will be											
	(1) 2v	<b>(2)</b> 2ν cosθ	(3) 2v sinθ	(4) 2v/cosθ								
Q.17	When a plane mirror is placed horizontally on level ground at a distance of 60 metres from the foot of a tower, the top of the tower and its image in the mirror subtend an angle of 90° at the eye. The height of the tower is											
	(1) 50 metres	(2) 00 metres	(5) 50 metres	(4) 120 metres								
Q.18	A point object is pl infinite number of the two mirrors is-	A point object is placed midway between two plane mirrors distance 'a' apart. The plane mirrors form an infinite number of images due to multiple reflections. The distance between nth order image formed in the two mirrors is-										
	(1) na	(2) 2 na	(3) $\frac{na}{2}$	(4) n <sup>2</sup> a								
Q.19	Number of images (1) two	of an object kept symm (2) three	etrically between two mi (3) six	irrors inclined at angle 72°, would be- (4) four								
Q.20	Two plane mirrors The number of ima	Two plane mirrors are inclined to one another at an angle of 40°. A point object is placed in between them.										
	(1) Infinite (2) 9 (3) 8 (4) 6											

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## Answer key

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans:	1	1	4	2	4	З	1,4	3	2	1	1	3	3	4	4
Q.	16	17	18	19	20										
Ans:	2	2	2	4	3										

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