# Physics # 06

## SOLUTIONS

- RAY OPTICS AND OPTICAL INSTRUMENTS
- WAVE OPTICS
- MODERN PHYSICS
- SEMICONDUCTOR & DIGITAL ELECTRONICS

#### Solutions

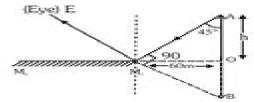
#### Ray Optics & Optical Instruments

#### **BEGINNER'S BOX-1**

1. Minimum length of the mirror =  $\frac{H}{2}$ 

$$=\frac{1.8}{2}=0.9 \text{ m}$$

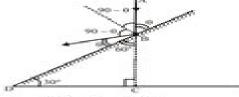
3.



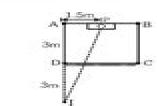
From figure ∠AM<sub>1</sub>E = 90°

$$\tan 45^{\circ} = \frac{60}{OA} = \frac{60}{h}$$
  
 $\therefore h = 60m$ 

4



Line ABC make  $180^{\circ}$   $\theta + 90 - \theta + 90 - \theta + \theta + 60 = 180 \Rightarrow \theta = 60^{\circ}$ (From figure) angle between mirror and reflected ray is equal to  $60^{\circ}$ 



5.

Distance of image from camera =  $\sqrt{(6)^2 + (1.5)^2}$  = 6.18 m

#### **BEGINNER'S BOX-2**

2. In given conditions  $m = -\frac{v}{u} = 2 \Rightarrow v = -2u$ from mirror equation  $\frac{1}{v} + \frac{1}{v} = \frac{1}{v}$ 

from mirror equation  $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$ given f = -0.2 m

$$\Rightarrow \frac{1}{-2u} + \frac{1}{u} = \frac{1}{-0.2} \Rightarrow u = -0.1m$$

so mirror should be placed at the distance of  $0.1\ \mathrm{m}$ .

3. From mirror equation  $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$ 

$$\Rightarrow \ \frac{1}{v} \ + \ \frac{1}{-f/2} \ - \ \frac{1}{f} \ \Rightarrow v \ - \ \frac{f}{3}$$

and  $m = -\frac{v}{u} = -\frac{f/3}{-f/2} = \frac{2}{3}$  so image will be virtual, erect and smaller than object

4. From mirror equation  $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$ 

$$\Rightarrow \frac{1}{v} = \frac{1}{f} - \frac{1}{u} = \frac{1}{20} - \frac{1}{-600} = \frac{31}{600}$$

 $\Rightarrow$  v =  $\frac{600}{31}$  = 19.35 cm behind the mirror.

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Jiyuan Zhang

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