

## Q8

If a man throws up a ball and catches it after some time. This time is called time of flight. Time of flight in these types of motion depend on whether the man is stationary or he is accelerated. If the man is in a moving lift throws a ball and catches it after time  $t_1$  when lift is moving up with acceleration  $a$  and catches the ball in time  $t_2$  if the lift is moving down with same acceleration  $a$ . The speed with which ball is thrown w.r.t. man is

- (a)  $\frac{gt_1 t_2}{t_1 - t_2}$  (b)  $\frac{gt_1 t_2}{t_1 + t_2}$  (c)  $\frac{2gt_1 t_2}{t_1 - t_2}$  (d)  $\frac{2gt_1 t_2}{t_1 + t_2}$

## Q9

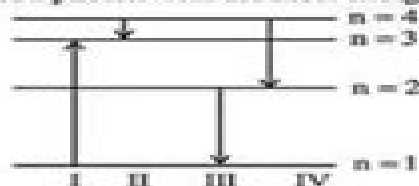
A stone projected with a velocity  $u$  at an angle  $\theta$  with the horizontal reaches maximum height  $H_1$ . When it is projected

with velocity  $u$  at an angle  $\left(\frac{\pi}{2} - \theta\right)$  with the horizontal, it reaches maximum height  $H_2$ . The relation between the horizontal range  $R$  of the projectile, heights  $H_1$  and  $H_2$  is

- (a)  $R = 4\sqrt{H_1 H_2}$  (b)  $R = 4(H_1 - H_2)$   
(c)  $R = 4(H_1 + H_2)$  (d)  $R = \frac{H_1^2}{H_2^2}$

## Q10

The diagram shows the energy levels for an electron in a certain atom. Which transition shown represents the emission of a photon with the most energy?



- (a) IV (b) III (c) II (d) I

## Q11

In optical communication system operating at 1200 nm, only 2% of the source frequency is available for TV transmission having a bandwidth of 5 MHz. The number of TV channels that can be transmitted is

- (a) 2 million (b) 10 million  
(c) 0.1 million (d) 1 million

## Q12

A neutron travelling with a velocity  $v$  and kinetic energy  $E$  has a perfectly elastic head-on collision with a nucleus of an atom of mass number  $A$  at rest. The fraction of total energy retained by the neutron is approximately

- (a)  $[(A-1)/(A+1)]^2$  (b)  $[(A+1)/(A-1)]^2$   
(c)  $[(A-1)/A]^2$  (d)  $[(A+1)/A]^2$

## Q13

A transverse wave is represented by the equation

$y = y_0 \sin \frac{2\pi}{\lambda} (vt - x)$  For what value of  $\lambda$  is the maximum particle velocity equal to two times the wave velocity?

- (a)  $\lambda = 2\pi y_0$  (b)  $\lambda = \frac{\pi y_0}{3}$   
(c)  $\lambda = \frac{\pi y_0}{2}$  (d)  $\lambda = \pi y_0$

## Q14

A vessel contains 110 g of water. The heat capacity of the vessel is equal to 10 g of water. The initial temperature of water in vessel is  $10^\circ\text{C}$ . If 220g of hot water at  $70^\circ\text{C}$  is poured in the vessel, the final temperature neglecting radiation loss, will be

- (a)  $70^\circ\text{C}$  (b)  $80^\circ\text{C}$   
(c)  $60^\circ\text{C}$  (d)  $50^\circ\text{C}$

## Q15

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