

MOCK TEST 4 (IIT JEE 2008)

PAPER 1

Time: 3 hours

Marks: 270

Each question has only one correct answer. For every correct answer 3 marks will be awarded. For every wrong answer 1 mark will be deducted.

Physics

1. A balloon starts from rest on the ground with constant acceleration $\frac{g}{8}$. A ball is dropped from the balloon when the balloon is at a height 'h' meter. The time taken by the ball to reach the ground is
 (a) $2\sqrt{\frac{h}{g}}$ (b) $\sqrt{\frac{h}{g}}$ (c) $\sqrt{\frac{2h}{g}}$ (d) $\sqrt{\frac{h}{2g}}$
2. According to previous problem, the velocity acquired by the ball just before it strikes the earth is,
 (a) $\sqrt{2gh}$ (b) \sqrt{gh} (c) $\frac{3}{2}\sqrt{gh}$ (d) $\frac{\sqrt{gh}}{2}$
3. A car is moving with a speed ' u_1 ' see a truck at a distance 'S' ahead from the car on the same track moving with a speed ' u_2 '. Driver of the car now puts on the break and gives a constant acceleration 'a'. The car will collide with the truck when,
 (a) $S < \frac{(u_1 - u_2)^2}{2a}$ (b) $S > \frac{(u_1 - u_2)^2}{2a}$
 (c) $S < \frac{(u_1 - u_2)^2}{a}$ (d) $S < \frac{(u_1^2 - u_2^2)}{a}$
4. A particle is moving along a curved path. Its velocity is directed
 (a) normally to the tangent (b) parallel to the radial acceleration but outwardly
 (c) tangentially (d) none of these.
5. The acceleration of a particle varies with distance as $a = \frac{3}{2}x^2$. Then the distance covered by the particle, ($t = 0, v = u$). When its speed becomes $2u$ is,
 (a) $3u^2$ (b) $\frac{3u^2}{4}$ (c) $(3u^2)^{1/2}$ (d) $3u^{2/3}$
6. Two balls are simultaneously projected vertically towards each other one from top of the building and the other from the bottom with a speed of 5 meter/sec. If 100 meter be the height of the building then the time after which both the balls meet each other is,
 (a) 10 sec (b) 5 sec (c) 12 sec (d) 8 sec.
7. A body falling freely from a height 'H' hits a inclined plane in its path at a height 'h'. As a result of this impact the direction of the velocity of the body becomes horizontal. The ratio of $\frac{h}{H}$ for which the body will take maximum time to reach the ground is
 (a) $\frac{2}{1}$ (b) $\frac{1}{3}$ (c) $\frac{1}{2}$ (d) $\frac{1}{4}$

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G Psacharopoulos



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