

AIIMS-28-May-2017
Physics

1. A bus starts from rest and moves with constant acceleration 8 ms^{-2} . At the same time, a car travelling with the constant velocity 16 m/s and passes the bus. After how much time and at what distance, the bus overtakes the car?
 - (a) $t = 4 \text{ s}$, $d = 64 \text{ m}$
 - (b) $t = 5 \text{ s}$, $d = 72 \text{ m}$
 - (c) $t = 8 \text{ s}$, $d = 58 \text{ m}$
 - (d) None of the above

2. Consider a planet in solar system which has the mass double mass of the earth and density equal to the average density of the earth. An object weighing W on the earth will weight
 - (a) W
 - (b) $2W$
 - (c) $\frac{W}{2}$
 - (d) $2^{1/3} W$ at the planet

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