

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF PHYSICS

PYP – 001-03

I.D. #

Name: Key

QUIZ No. 1

1- What is the acceleration of a vehicle that changes its velocity from 15 m/s to dead stop in 10 s?

Answer:

According to an acceleration definition: $a = \frac{\Delta v}{t} = \frac{v - v_0}{t} = \frac{0 - 15}{10} = -1.5 \text{ m/s}^2$

The minus sign (-) denote that type of acceleration (a) is deceleration.

2- If you increase the mass of any an object, therefore the inertia the object will:

- a- Decrease.
- b- Increase.**
- c- Not change.
- d- No enough information.
- e- All answers are wrong.