

Smart Writeup's

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date:

Name:

ID No.....

1. Which of the following is/are true:

- (i) A body can have mass but no weight.
- (ii) A body can have weight but no mass.
- (iii) A body can have both mass and weight.

2. Why do we neglect gravitational forces exerted on a falling stone while calculating its acceleration?

3. Starting from Newton's law of gravitation, show that the value of g decreases as we go above the surface of the earth.

4. What are the difference between g and G ? Are both of them universal constants?

5. Show that if gravity is the only force acting on a body, it falls near the earth's surface with acceleration equal to the acceleration due to gravity ' g '.
