

ASSESSYOURSELF

Practice. Learn. Succeed

Sub : Science

Grade: 6th

Date:

Name:

ID No.....

Time allowed: 1 hour

Maximum marks: 25

1. Name the scientist associated with the laws of motion. 1
2. Write the SI unit of momentum. 1
3. Name the principle on which a rocket works. 1
4. Do action and reaction act on the same body? 1
5. Define force of friction. 2
6. What do balanced forces usually do to a body? 2
7. A person sitting in a bus falls backward if the bus starts suddenly. Why? 2
8. What is the acceleration produced by a force of 10 N exerted on an object of mass 5 kg? 2
9. What force would be needed to produce an acceleration of 4m/s^2 on a ball of mass 8 kg? 2
10. When force acting on a body has equal and opposite reaction, then why should the body move at all? 2
11. A body of mass 10 kg is moving with a velocity of 20 m/s. A force is applied to it so that in 30 s it attains a velocity of 40 m/s. Calculate the value of the force applied. 3
12. A body of mass 1,000 kg is at rest. Calculate the force required to impart it a velocity of 20 m/s in 10 s. 3
13. When a person jumps from a boat on the shore, the boat starts moving in the opposite direction. Explain this phenomenon on the basis of principle of conservation of linear momentum. 3