



Priya's Learning Centre

Ch – 9 Force & Laws Of Motion





Q.1: In 1581, Galileo wrote his first scientific book _____, where he described Archimedes' method of finding the relative densities of substances using a balance.

- a) Letters on the Sunspots
- b) Starry Messenger
- c) The Little Balance

Q.2: The SI unit of momentum is _____.

- a) metre per second
- b) kilogram-metre per second
- c) None

Q.3: A force of one Newton produces an acceleration of _____ on an object of mass 1 kg.

- a) 1 m s^{-1}
- b) 1 m s
- c) $(-1) \text{ m s}^{-1}$

Q.4: _____ is the natural tendency of an object to resist a change in its state of motion or of rest.

- a) inertia
- b) force
- c) momentum

Q.5: To accelerate the motion of an object, a/an _____ force is required.

- a) balanced
- b) unbalanced
- c) both

Q.6: The _____ law of motion gives us a method to measure the force acting on an object as a product of its mass and acceleration.

- a) first
- b) second
- c) third

Q.7: Frictional forces act opposite to the direction of motion.

- a) True
- b) False

Q.8: Which law of motion is also known as the “law of inertia” ?

- a) first

b) second

c) third

Q.9: The _____ of an object is a measure of its inertia.

a) acceleration

b) force

c) mass

Q.10: Which of the following statements are correct regarding the “Conservation Laws” ?

i) A conservation law can not be proved.

ii) A single experiment against the law can not disprove it.

iii) It can be verified by conducting experiments.

a) i and ii

b) ii and iii

c) i and iii

Answers:

1. c

2. b

3. a

4. a

5. b

6. b

7. a

8. a

9. c

10. c