

FORMATIVE ASSESSMENT-2
CHAPTER - 3 : LAWS OF MOTION

Name:..... Section:..... Roll No:..... Max.Marks:20

I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M

- 1) Write a brief notes about your favourite scientist. (Any eight points)
2) How can you perform to verify Newton's third law of motion in class room ?

II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M

- 3) What happens to the passengers when a rest bus moves suddenly ? Why ?
4) Draw a neat diagram of balloon rocket.

III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M

- 5) Formula for momentum is $P = mv$. Find the momentum of a body having 2 Kg mass travelling with 10 m/s velocity.

- 6) There are four bodies with masses 10 Kg, 15 Kg, 12.5 Kg and 8 Kg.
Among these objects which has more inertia ?

IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M

- 7) Newton proved his three laws of motion by using machine. []

A. Atwood machine B. Telescope C. Spring balance D. Stereo scope

- 8) The S.I. units of mass []

A. Kiogram B. Gram C. Meter D. Litre

- 9) FBD means []

A. Free Body Design B. Full Body Diagram
C. Full Body Design D. Free Body Diagram

- 10) The speed of a ball rolling from the top of an inclined plane is []

A. increased B. decreased C. No change D. Undetermined

- 11) If net force on a body is zero, then []

A. The body is in acceleration B. The body is in deceleration
C. The body changes its direction D. The body remains its previous state

- 12) Newton's first law of motion relates to []

A. Inertia B. Pressure C. Momentum D. All of the above

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