

SLIP TEST-3(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) Explain dynamic inertia with an activity.
- 2) What is the law of conservation of momentum? Explain.

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

- 3) What is Newton’s second law of motion?
- 4) Find the net force on a car which is moving with 20 m/s uniform speed towards west direction.

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

- 5) Two objects have masses 8 Kg and 18 Kg. Which one has more inertia?
- 6) A man , while diving in pool bent his legs. Why?

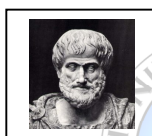
IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M

7) Identify the scientist who invented three laws of motion. []

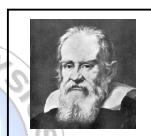
A.



B.



C.



D.



8) FBD []

- A. Free Body diagram
- B. First Body Diagram
- C. Free Base Diagram
- D. Full Body Diagram

9) Momentum (P) = []

- A. m.a
- B. $\frac{F}{m}$
- C. m.v
- D. $\frac{F}{a}$

10) Is the measurement of inertia. []

- A. Velocity
- B. Acceleration
- C. Mass
- D. Force

11) S.I. units of Force []

- A. dyne
- B. Joule
- C. Newton
- D. erg

12) The friction is always in Direction. []

- A. towards fixed point
- B. downwards
- C. upwards
- D. opposite to motion