

FORMATIVE ASSESSMENT-2

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

I. Answer the following questions. Each carries four marks. $2 \times 4 = 8 \text{ M}$

1) Define linear momentum. Write the formula. Find the momentum of a body travelling with velocity 2.2 m/s and having mass 3.5 Kg. ?

2) Write Newton's three laws of motion.

II. Answer the following questions briefly. Each carries two marks. $2 \times 2 = 4 \text{ M}$

3) What happens to the passengers when a moving bus stops suddenly ? Why ?

4) Draw a neat diagram of balloon rocket.

III. Answer the following in one or two sentences. Each carries one marks. $2 \times 1 = 2 \text{ M}$

5) The teacher asked Ramitha a question. Ramitha replied the correct answer "Galileo".

Can you guess, What was the question?

6) Write the law of conservation of momentum.

IV. Choose the correct choice and write down in the given brackets. $6 \times 1 = 6 \text{ M}$

7) Identify Pisa tower

[]

A.



B.



C.



D.



8) The ball applied force on a wall with smooth surface about 20 N.

Then how much force acts on the ball by the wall? []

A. 30 N

B. 10 N

C. 20 N

D. 2 N

9) 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

10) There are four bodies with masses 10 Kg, 15 Kg, 12.5 Kg and 8 Kg.

Among these objects which has more inertia ? []

A. The body with 10 Kg

B. The body with 15 Kg

C. The body with 12.5 Kg

D. All have same inertia

11) Net force x The applied time = []

A. acceleration

B. velocity

C. impulse

D. change in velocity

12) The S.I. units of mass []

A. Kg

B. gram

C. Ton

D. All of the above