

SER (2021-22)
GRADE: IX
SUBJECT: PHYSICS

Duration: 30 mins.

Maximum Marks: 10

1. What causes a body to fall on Earth?
 - a. acceleration
 - b. velocity
 - c. gravity
 - d. mass
2. The product of mass and velocity is called?
 - a. acceleration
 - b. momentum
 - c. force
 - d. work
3. Which of the following is the correct value of acceleration due to gravity at the equator of Earth?
 - a. 9.6
 - b. 9.7
 - c. 9.8
 - d. 9.9
4. An increase in mass kept in the pan increased the.....of the pan.
 - a. weight
 - b. volume
 - c. time
 - d. area
5. What caused the trolley to move?
 - a. force
 - b. friction
 - c. acceleration
 - d. velocity
6. An increase in the mass of an object willits acceleration(keeping the force acting constant).
 - a. increase

- b. decrease
 - c. not change
 - d. first increase and then decrease.
7. Consider the mass of 1 brick to be 100 gms. how much force will be required to pick 10 such bricks individually?
- a. 0.98 N
 - b. 9.8 N
 - c. 98 N
 - d. 980 N
8. The SI Unit of Force is.....
- a. $\text{kg}^2\text{m/s}^2$
 - b. kgm/s^2
 - c. kgm^2/s^2
 - d. $\text{kg}^2\text{m}^2/\text{s}^2$
9. What was the effect of increasing mass in the pan on the velocity of the trolley?
- a. it increased
 - b. it decreased
 - c. it remained the same
 - d. the trolley did not move at all.
10. What is the correct formulation of the Second Law of Motion?
- a. $F = mv$
 - b. $F = ms$
 - c. $F = ma$
 - d. $F = mu$