

**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 will .....its 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.  $\text{kg}^2\text{m}/\text{s}^2$
  - b.  $\text{kgm}/\text{s}^2$
  - c.  $\text{kgm}^2/\text{s}^2$
  - 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.  $F = mu$