

Class 9

REVISION WORKSHEET (PHYSICS)

1. What do you mean by law of conservation of momentum?
2. Why do roads on mountains have inward inclination at sharp turns?
3. Why is it dangerous to jump out of a moving bus?
4. How do safety belts of cars help in preventing accidents?
5. Explain how momentum gets conserved in collision of two bodies?
6. How are Newton's three laws of motion related?
7. Explain inertia and momentum in detail.
8. Define force and its various types. What is its unit?
9. Give three examples exhibiting inertia in our daily life
10. What change will a force bring in a body?
11. From a rifle of mass 5kg, a bullet of mass 50gram is fired with an initial velocity of 50m/s. Calculate the initial recoil velocity of the rifle.
12. Explain how newton's second law of motion is used in sports?
13. Why does one get hurt on jumping from a great height to the floor?
14. A car travels at 54 km/h for first 20 s, 36 km/h for next 30 s and finally 18 km/h for next 10 s. find its average speed.
15. Define acceleration and give its SI unit. When is acceleration of a body negative? Give two examples of situations in which acceleration of the body is negative.
16. Distinguish between uniform motion and non uniform motion. Is uniformly accelerated motion uniform motion? Give one example each of uniform and non-uniform motion.
17. The earth attracts an apple. Does the apple also attract the earth? If it does, why does the earth not move towards the apple?
18. Is the gravitational acceleration independent of mass? Name the experiment which concluded this?
19. Where do we observe the maximum value of the gravitational acceleration? Equator, poles or Mt Everest?
20. Why does a mug full of water appear lighter inside the water?