

Physics (New Book) - 9th Class Physics English Medium Chapter 3 Preparation

Q1. What is action in above example

Ans 1: Action is weight of book acting downward on the table.

Q2. What is action in above example.

Ans 1: Action is weight of book acting downward on the table.

Q3. Define unit of force.

Ans 1: Unit of force is Newton. 1 N is a force that produced an acceleration of 1 ms^{-2} in a body of mass of 1 kg.

Q4. What is meant by dynamics?

Ans 1: The branch of mechanics that deals with study of motion of an object and the cause of its motion is called dynamics.

Q5. Which shoes is better for juggling

Ans 1: The shoes whose grip is strong on ground is better for juggling these shoes provide more friction for strong grip on road and prevent to falling

Q6. What do you mean by skidding ?

Ans 1: Motion of wheel without rotation is called skidding.

Q7. What is meant by limiting friction

Ans 1: Limiting Friction: The maximum value of friction is known as the force of limiting friction

Ans 2: Symbol: Limiting friction denoted by f_s

Ans 3: Dependence It depends on the normal reaction (pressing) force between the two surfaces in contact

Ans 4: Example: The value of limiting friction between glass and glass is 0.9

Q8. In which case it is easy for the tire to roll over? Rough ground

Ans 1:

Rough ground:

In case of rough ground, it is difficult for the tire to roll over because rough surface offers more friction.

Smooth ground:

In case of smooth ground it is easier for the tire to roll over because smooth surface offers less friction.

Q9. What is the advantage of banking of road?

Ans 1: When a road is banked in a tight turn a lot of the normal reaction balances the centrifugal force so that we are not entirely dependent on friction which also provides torque and can overturn the vehicle in tight turns.

Q10. State first law of motion.

Ans 1: A body continues its state of rest or of uniform motion in a straight line provided no net force acts on it. It is also called law of inertia.
