

Bharatiya Vidya Bhavan's V.M. Public School

Chapter – 13 : Friction

I. Fill in the blanks :

1. The force of friction always acts in the _____ direction to the applied force.
2. _____ comes into play when we try to move an object at rest.
3. _____ comes into play when an object is sliding over other object.
4. Sliding friction is always _____ than static friction.
5. Friction can be _____ by using lubricants.
6. Friction is the force which _____ the relative motion between two surfaces.
7. Friction can be increased by making a surface _____.
8. The friction force exerted by fluid is also called _____.
9. The common name of gases and liquids is _____.
10. Name the device used for measuring the force acting on an object _____.

II Answer the following :

1. Name two methods of reducing friction.
2. Explain why, sliding friction is less than static friction.
3. What is meant by 'rolling friction'?
4. Why does a man slip when he steps on a banana peel thrown on the road?
5. Why the soles of shoes and tyres of cars, truck etc. are grooved.
6. Define friction. What is the cause of friction?
7. How the fluid friction can be minimized?
8. Out of sliding friction, static friction & rolling friction :
 - a) Which one is the smallest?
 - b) Which one is the largest?
9. The handle of the bat or a badminton racquet is usually rough. Explain the reason.
10. A car is moving towards North. What will be the direction of force of friction acting on this car due to surface of road?
11. Meteors burn before reaching the earth's surface. Why?
12. 'Friction is a necessary evil' Justify.