

Board – CBSE

Class – 8

Topic – Friction

## SUBJECTIVE TYPE QUESTIONS

Answer the following in one word or very briefly.

1. Defined force of friction.
2. Does the force of friction always oppose the relative motion between the two bodies in contact?
3. Is the force of friction a contact force?
4. How does friction force vary with a change in the roughness of the surface?
5. Is friction a self-adjusting force?
6. What do you mean by limiting friction?
7. What is rolling friction?
8. Is friction a necessary evil?
9. Which is greater: static friction or dynamic friction?
10. Do we waste energy in overcoming the force of friction?
11. Name two machines that use streamlining to reduce friction.
12. What happens to the force of friction if the surface of contact is polished?
13. What is the other name given to sliding friction?

Answer the following brief.

1. What do you mean by friction? Does the use of wheels between surfaces moving over each other reduce friction?
2. Is friction a self-adjusting force? Give two disadvantages of friction?
3. Friction also depends on the shape of an object. Explain?
4. Friction causes wear and tear. Given an everyday example in support of the statement.
5. What is the function of an air cushion in a hovercraft?
6. How do irregularities in a surface affect the force of friction?

7. What is the drag of a fluid? Is fluid friction less than solid friction?
8. What is a streamlined shape? Explain the advantage of this shape to birds and aquatic animals?
9. Why does friction occur when two surfaces are in contact?
10. What are the main factors on which friction depends?
11. What are ball bearings? How are they useful?
12. What are lubricants? What do they have to do with friction?
13. List two situations where it is desirable to increase friction?
14. Why is the sewing machine frequently oiled?
15. Why is it said that worn-out tyres should be discarded?

Answer the following in appropriate detail

1. What is limiting friction? State two uses and two abuses of friction. Hence prove that friction is a necessary evil.
2. How many types of friction have you come across? Define them. Is rolling friction more than dynamic friction?
3. What are the factors that affect the force of friction?
4. What is frictional force? Suggest and briefly explain three methods by which friction can be minimised.
5. With the help of examples, prove that friction is a necessary evil.
6. With the help of an experiment, show that the force of friction always opposes the relative motion between their bodies.
7. What is friction? What are its advantages and disadvantages?
8. Explain how friction can be increased and decreased?
9. Illustrate static, Sliding and rolling friction with an example.
10. Why is it difficult to balance our body when we accidentally step on a banana peel?

