St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092
Session 2022-2023 - Worksheet

Class: VIII	Subject: Science	Topic: Friction	Worksheet No:10

Q.1. Fill in the blanks:

a) Bodies of birds, fishes and ships are _____.
b) Friction can also produce _____.
c) All objects moving in fluids have _____ shape to reduce _____.
d) Rough surfaces produce _____ friction than smooth surfaces.
e) In many machines, friction is reduced by using _____.

Q.2.Write True or False against each statement:

a) Friction is independent of the nature of surfaces in contact.
b) A spring balance measures force.
c) Friction can be reduced by using ball bearings in some machines.
d) Friction can never be eliminated.
e) Friction do not produce heat.

Q.3. Match the following:

Column I	Column II
1. Fluid friction	(a) Due to friction
2. Lubricants	(b) Streamlined
3. Wheels	(c) Increases friction
4. Spring balance	(d) Drag
5. Shape of aeroplane	(e) Rolling friction
6. Rough surface	(f) Reduce friction
7. Heat generation	(g) Measures force

Q.4. Multiple choice questions:

a) Friction is a
(i) non-contact force
(ii) contact force

(iii) magnetic force
(iv) electrostatic force

b) Which of the following produces least friction?
(i) Sliding friction
(ii) Rolling friction
(iii) Composite friction
(iv) Static friction

c) Friction always
(i) opposes the motion
(ii) helps the motion
(iii) both (a) and (b)
(iv) none of these

d) Friction can be reduced by using
(i) oil
(ii) grease
(iii) powder
(iv) all of these

e) Static friction is less than
(i) sliding friction
(ii) rolling friction
(iii) both (a) and (b)
(iv) none of these

Q.5. Answer the following questions:

a) If we push the book on the table, it stops after sometime. Why?

b) How does the friction depend on the nature of the surface?

c) When the two surfaces are pressed harder, friction increases. Explain why?

d) The sliding friction is slightly smaller than the static friction. Explain why?

e) What do you mean by fluid friction? How can fluid friction be reduced?