

**I. Choose the correct option.**

1. Question. Friction can be reduced by using

- (a) oil
- (b) grease
- (c) powder
- (d) all of these

Answer (d) all of these

2. Question. The shape of an aeroplane is like a

- (a) dog
- (b) bird
- (c) car
- (d) all of these

Answer (b) bird

3. Question. Friction is

- (a) foe
- (b) friend
- (c) both (a) and (b)
- (d) none of these

Answer (c) both (a) and (b)

4. Question. Friction due to fluids is called

- (a) force
- (b) pressure
- (c) friction
- (d) drag

Answer (d) drag

5. Question. Lubricant

- (a) reduce friction
- (b) increase friction
- (c) both (a) and (b)
- (d) none of these

Answer (a) reduce friction

6. Question. Fluids are

- (a) liquids
- (b) gases
- (c) both (a) and (b)
- (d) none of these

Answer: (c) both (a) and (b)

7. Question. A boat or an aeroplane has a pointed or tapering front / head. Why?

- (a) To increase the friction of fluid
- (b) To reduce the friction of fluid
- (c) To look good
- (d) For no reason

Answer: (b) To reduce the friction of fluid

8. Question. The sole of the shoes becomes plain after wearing it for several months. The reason is

- (a) Wearing out due to friction
- (b) Wearing out due to no friction
- (c) Sole is of bad quality
- (d) None of the above

Answer: (a) Wearing out due to friction

**II. Match the items given in column I suitably with those given in column II.**

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

Answer:

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

**III. Fill in the blanks with suitable word/s.**

- 1. Friction due to fluid is also called \_\_\_\_\_.  
Answer: drag
- 2. Bodies of birds, fishes and ships are \_\_\_\_\_.  
Answer: streamlined
- 3. Friction can also produce \_\_\_\_\_.  
Answer: heat
- 4. All objects moving in fluids have \_\_\_\_\_ shape to reduce \_\_\_\_\_.  
Answer: streamlined, friction

**IV. State whether the given statements are true or false.**

- 1. Fluids are only liquids.  
Answer: False
- 2. Friction can be reduced by using lubricants.  
Answer: True
- 3. Friction can never be eliminated.  
Answer: True
- 4. Friction do not produce heat.  
Answer: False