

**I. Choose the correct option.**

1. Question. Which of the following produces least friction?

- (a) Sliding friction
- (b) Rolling friction
- (c) Composite friction
- (d) Static friction

Answer (b) Rolling friction

2. Question. Static friction is less than

- (a) sliding friction
- (b) rolling friction
- (c) both (a) and (b)
- (d) none of these

Answer (d) none of these

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. It is difficult to walk on an oily floor because

- (a) Floor gets spoiled
- (b) There is more resistance
- (c) Force of friction is high
- (d) Force of friction is very less

Answer(d) Force of friction is very less

5. Question. Sliding friction is \_\_\_\_\_ than / to rolling friction

- (a) smaller
- (b) greater
- (c) equal
- (d) None of the above

Answer: (a) smaller

6. Question. Four children were asked to arrange forces due to rolling, static and sliding frictions in an increasing order. Their arrangements are given below. Choose the correct arrangement.

- (a) Rolling, Static, Sliding
- (b) Static, Rolling, Sliding
- (c) Rolling, sliding, static
- (d) Sliding, Static, Rolling

Answer: (c) Rolling, sliding, static

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

1. Sliding friction is \_\_\_\_\_ than static friction.  
Answer: less
2. Rolling friction is \_\_\_\_\_ than sliding and static friction.  
Answer: less
3. Friction can also produce \_\_\_\_\_.  
Answer: heat
4. In many machines, friction is reduced by using \_\_\_\_\_.  
Answer: ball bearing

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

1. Friction is dependent on area of contact.  
Answer: False
2. Sliding friction is less than rolling friction.  
Answer: False
3. Friction can be reduced by using ball bearings in some machines.  
Answer: True
4. Friction can never be eliminated.  
Answer: True
5. Friction do not produce heat.  
Answer: False