

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