

Class Notes	
Class: 8	Topic: EXTRA QUESTIONS & MCQ'S – FRICTION.
Subject: SCIENCE	

MULTIPLE CHOICE QUESTIONS

NOTE – TO BE PRACTICED - CAN BE WRITTEN IN NOTEBOOK /DOWNLOAD & SAVE FOR REVISION

1. Friction is a-

- (a) non-contact force
- (b) contact force
- (c) magnetic force
- (d) electrostatic force

2. Friction can be reduced by using –

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

3. Which of the following statements is incorrect?

- (a) Friction acts on a ball rolling along the ground
- (b) Friction acts on a boat moving on water
- (c) Friction acts on a bicycle moving on a smooth road
- (d) Friction does not act on a ball moving through air

4. Friction due to fluids is called -

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

5. If we apply oil on door hinges, the friction will –

- (a) increase
- (b) decrease
- (c) disappear altogether
- (d) will remain unchanged

6. A boy rolls a rubber ball on a wooden surface. The ball travels a short distance before coming to rest. To make the same ball travel longer distance before coming to rest, he may-

- (a) spread a carpet on the wooden surface.
- (b) cover the ball with a piece of cloth.
- (c) sprinkle talcum powder on the wooden surface.
- (d) sprinkle sand on the wooden surface

7. 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

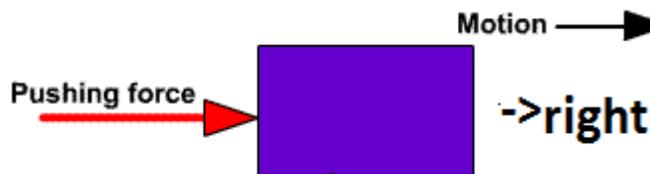
8. Four children were asked to arrange forces due to rolling, static and sliding frictions in an increasing order. Their arrangements are given below. Choose the correct arrangement.

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

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

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

10. A wooden block is pushed such that it starts moving on a horizontal plane, as shown in the given figure. It is observed that the block stops after traveling some distance. The block stops because the frictional force acts



- a) Toward the left
- b) Toward the right
- c) In the upward direction
- d) In the downward direction

11. A box is placed on three different surfaces "a marble floor, a cardboard sheet, and a sandpaper. The minimum forces required to simply move the box on the surfaces are F_m , F_c and F_s respectively. The three forces can be arranged in the decreasing order as

- a) $F_c < F_m < F_s$
- b) $F_c < F_s < F_m$
- c) $F_m < F_c < F_s$
- d) $F_s < F_c < F_m$

12. Anita throws four stones having the same weight on four different surfaces. The surfaces are icy»

wooden, sandy and carpeted. She throws each stone with the same force. On which of the given surfaces will the stone go the maximum distance before it stops?

- a) icy surface
- b) Sandy surface
- c) Wooden surface
- d) carpeted surface

13. Statement I: It is convenient to pull luggage fitted with rollers.

Statement II: Rolling friction is smaller than sliding friction.

Read the statements above & choose the correct statement.

- a) Both statements I and II are true, statement II is the correct explanation for statement I.
- b) Both statements I and II are true, statement II is not the correct explanation for statement I.
- c) Statement I is true and statement II is false.
- d) Statement I is false and statement II is true.

14. Amit puts some sand in his hands and tries to grip a glass tumbler. He then repeats the same by putting chalk powder, mustard oil, and water on his palms respectively. For a proper grip, Amit should avoid gripping the tumbler with

- a) Water on palms
- b) Sand on palms
- c) Mustard oil on palms
- d) Chalk powder on palms

15. When X is applied between the moving parts of machine, a thin layer is formed there & moving surfaces do not directly rub against each other. Y of irregularities is avoided to a great extent. The substance which reduce friction are called Z.
Identify X, Y & Z.

	X	y	z
a)	Water	Lubricants	drag
b)	Oil	interlocking	lubricants
c)	Sand	Roughness	Lubricants
d)	Powder	smoothness	drag

