



# **PHYSICS**

## **BOOKS - ICSE**

### **FORCE**

**Questions Observe The Figures And Answer The Questions**



(a)



(b)



(c)

1.

What effects of force are illustrated in the figures shown above?



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(a)



(b)



(c)

2.

If 30 g of dough is taken will its mass change after applying force?



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## Questions

1. Why does a football come to a stop after rolling for some time?



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2. Would you prefer to slide or roll a log of wood along the road? Why?



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## **Exercises Section I Name The Following**

**1. A push or a pull**



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**2. The force that resists the motion of a body  
on a surface**



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3. The friction that is the maximum value of frictional force between two surfaces which can prevent one surface from sliding over the other



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4. The friction that results from two surfaces being pressed against each other while sliding



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5. Friction that acts when one object rolls across the other



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## Exercises Section I Choose The Correct Option

1. Which of the following is not an effect of force on an object?

A. Make a stationary object move

B. Change the direction in which an object is moving

C. Change the shape of an object

D. Change the colour of an object

**Answer:**



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2. In cricket when a batsman hits a ball, this is an example of force:

A. Making a stationary object move

B. Changing the direction in which an object is moving

C. Changing the shape of an object

D. Changing the colour of an object

**Answer:**



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**3. Friction is a type of**



A. force

B. work

C. energy

D. pressure

**Answer:**



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**4.** Friction that acts when one object rolls across the other

- A. Static friction
- B. Sliding friction
- C. Rolling friction
- D. Hard friction

**Answer:**



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**Exercises Section I Write T For True And F For False Correct The False Statements**

1. Force can move an object at rest.



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2. Force can change the shape of an object but cannot change the mass.



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3. Friction helps to increase the speed of a moving object.



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4. Static friction is more than sliding friction.



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5. It is much easier to roll an object rather than sliding it.



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## Exercises Section I Choose The Correct Option To Fill In The Blank

1. Force can change an object's .....  
(colour/shape).



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2. A football being stopped by a goalkeeper is  
an example of force ..... (stopping a  
moving object/making a stationary object  
move).



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**3.** Friction always acts in ..... (same direction as/opposite direction to) motion.



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**4.** Rolling friction is always ..... (more/less) than sliding friction.



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## Exercises Section I Complete The Table

Example	Friction should be (low/high)
Handle of a cricket bat	
Machine parts rubbing against each other	

1.



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## Exercises Section II Give Reasons For The Following

1. We tend to slip on very smooth surfaces like wet bathroom floors.



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**2.** It is easier to pull a suitcase that has wheels rather than a suitcase without wheels.



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**3.** The soles of shoes get worn out after repeated use.



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## Exercises Section II

1. Explain the following term

Force



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2. Explain the following term

Friction



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### 3. Explain the following term

Sliding friction



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## Exercises Section II Distinguish Between The Following

1. Difference between Static friction and sliding friction



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2. Difference between Sliding friction and rolling friction



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## Exercises Section II Short Answer Questions

1. List the different effects of force.



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2. What is static friction?



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## Exercises Section II Long Answer Questions

1. Discuss the effects of force with examples.



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2. Why is friction generated?



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**3. List two disadvantages of friction.**



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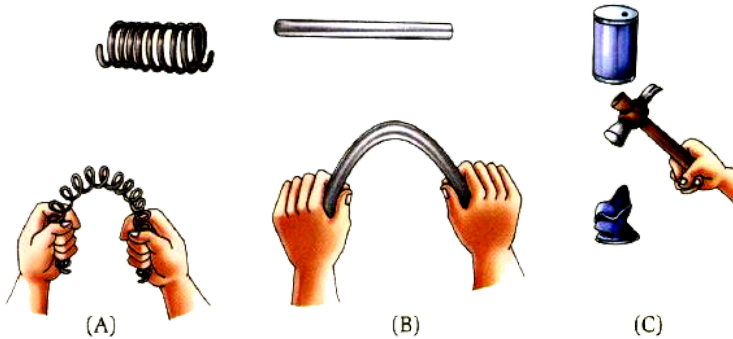
**4. List two advantages of friction.**



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**Picture Based Questions**

1. In the following pictures , figure out what are the effects of the forces on different objects.



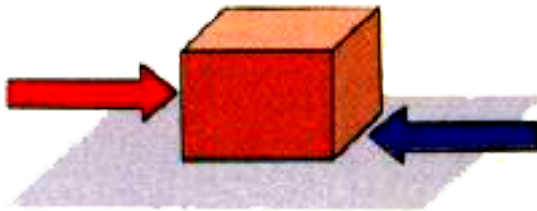
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2. Write down the type of friction for each of the following .

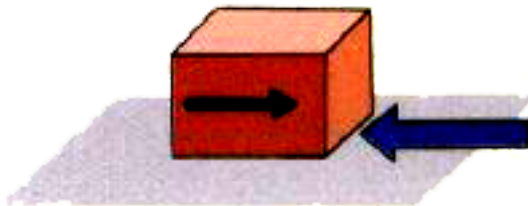
A. (object is not moving ) \_\_\_\_

B.(object is moving)\_\_\_\_

C.(objects is moving ) \_\_\_\_



(A)



(B)



(C)



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