

11. A girl is pushing a box towards east direction. In which direction should her friend push the box so that it moves faster in the same direction?

12.

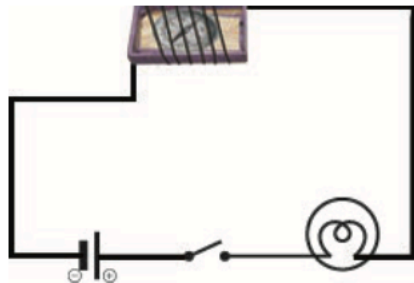


Fig. 11.6

In the circuit shown in Fig.11.6, when the key is closed, the compass needle placed in the match box deflects. Name the force which causes this deflection.

13. During dry weather, clothes made of synthetic fibre often stick to the skin. Which type of force is responsible for this phenomenon?
14. While sieving grains, small pieces fall down. Which force pulls them down?
15. Does force of gravity act on dust particles?
16. A gas filled balloon moves up. Is the upward force acting on it larger or smaller than the force of gravity?
17. Does the force of gravitation exist between two astronauts in space?

21. Two thermocol balls held close to each other move away from each other. When they are released, name the force which might be responsible for this phenomenon. Explain.
22. Fruits detached from a tree fall down due to force of gravity. We know that a force arises due to interaction between two objects. Name the objects interacting in this case.
23. A man is pushing a cart down a slope. Suddenly the cart starts moving faster and he wants to slow it down. What should he do?

28. Two women are of the same weight. One wears sandals with pointed heels while the other wears sandals with flat soles. Which one would feel more comfortable while walking on a sandy beach? Give reasons for your answer.
29. It is much easier to burst an inflated balloon with a needle than by a finger. Explain.

1. Give two examples each of situations in which you push or pull to change the state of motion of objects.
2. Give two examples of situations in which applied force causes a change in the shape of an object.
3. Fill in the blanks in the following statements.
  - (a) To draw water from a well we have to \_\_\_\_\_ at the rope.
  - (b) A charged body \_\_\_\_\_ an uncharged body towards it.
  - (c) To move a loaded trolley we have to \_\_\_\_\_ it.
  - (d) The north pole of a magnet \_\_\_\_\_ the north pole of another magnet.

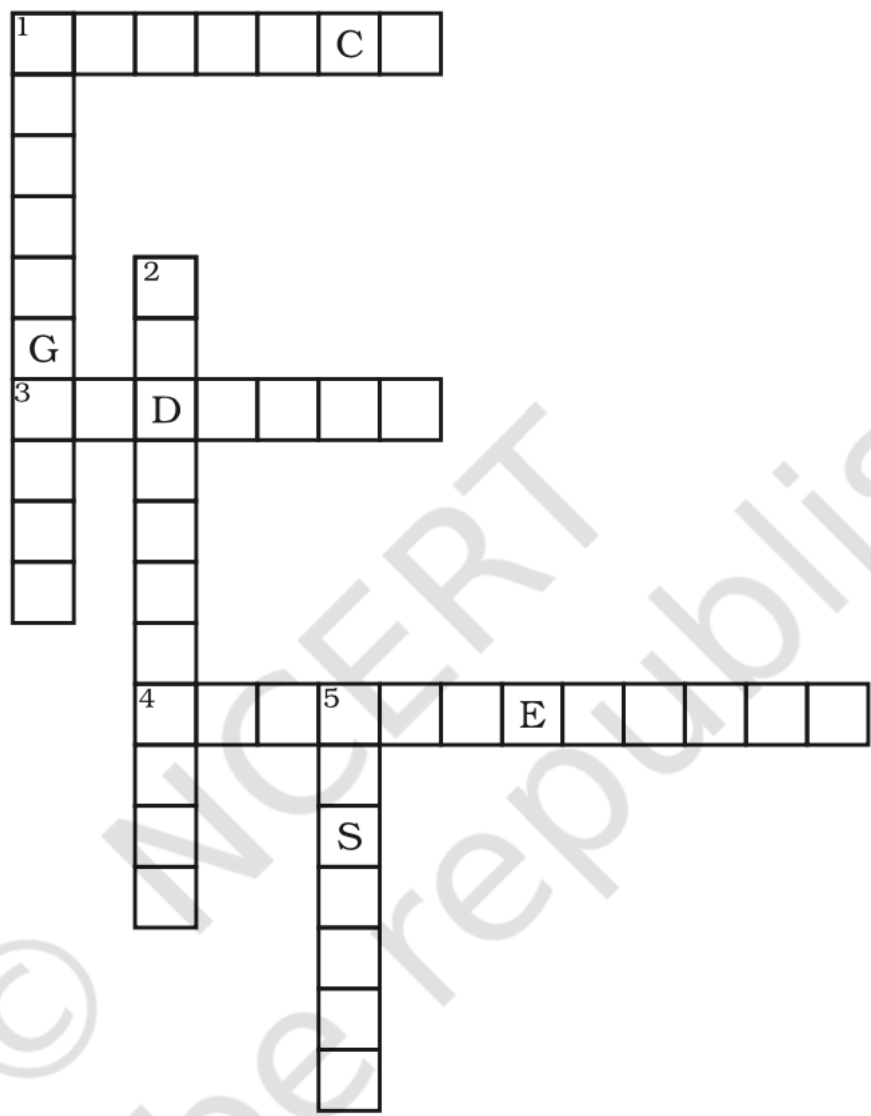
11. Complete the word puzzle.

**Down**

- 1. Species on the verge of extinction.
- 2. A book carrying information about endangered species.
- 5. Consequence of deforestation.

**Across**

- 1. Species which have vanished.
- 3. Species found only in a particular habitat.
- 4. Variety of plants, animals and microorganisms found in an area.



4. Fill in the blanks.

(a) Fossil fuels are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

(b) Process of separation of different constituents from petroleum is called \_\_\_\_\_.

(c) Least polluting fuel for vehicle is \_\_\_\_\_.

2. Match items in column **A** with those in column **B**.

**A**

- (i) Kharif crops
- (ii) Rabi crops
- (iii) Chemical fertilisers
- (iv) Organic manure

**B**

- (a) Food for cattle
- (b) Urea and super phosphate
- (c) Animal excreta, cow dung urine and plant waste
- (d) Wheat, gram, pea
- (e) Paddy and maize

10. Arrange the following boxes in proper order to make a flow chart of sugarcane crop production.

Sending crop to  
sugar factory

1

Irrigation

2

Harvesting

3

Sowing

4

Preparation of  
soil

5

Ploughing the  
field

6

Manuring

7