

Fig. 6.5 Collapsing and opening up of Mimosa leaves represent a reversible change.

6. A thick coating of a paste of Plaster of Paris (POP) is applied over the bandage on a fractured bone. It becomes hard on drying to keep the fractured bone immobilised. Can the change in POP be reversed?

Ans: No, the change in POP cannot be reversed since it is a chemical change.

7. A bag of cement lying in the open gets wet due to rain during the night. The next day the sun shines brightly. Do you think the changes, which have occurred in the cement, could be reversed?

Ans. No, these are irreversible chemical changes.

EXTRA QUESTIONS

I. VERY SHORT ANSWER TYPE QUESTIONS

1. Give two examples of slow changes.

Ans: (a) Growing of plants

(b) Ripening of fruits.

2. Give two examples of fast changes.

Ans: (a) Blowing of balloon

(b) Rolling out roti from dough ball.

3. Give two examples of reversible changes.

Ans: (a) Drying of wet clothes (b) Heating of milk.

4: Give two examples of irreversible changes.

Ans: (a) Milk to cheese (b) Cooking of food.

5. Can you say deforestation is an irreversible or reversible change?

Ans: It is an irreversible change.

6. Does the size of the paper change after making an aeroplane by folding it or by cutting it?

Ans: Yes.

7. Can you change the shape of a eraser after erasing?

Ans: Yes.

8. Why does a blacksmith heat the metal rim to fix it on a cart wheel?

Ans: A blacksmith heats the metal rim to fix it onto a cart wheel because a metal rim is made slightly smaller. On heating, the rim expands and fits onto the wheel. Then on cooling, the rim contracts and fits tightly onto the wheel.

9. What are slow and fast changes? Give examples.

Ans: The changes which take place in a long period of time are called slow changes whereas that changes which take place in a short period of time are called fast changes.

Examples:

(a) Rusting of iron, formation of day and night, ripening of fruits, growing of trees are slow changes.

(b) Burning of paper, stretching of rubber band, blowing of balloons, bursting of crackers are fast changes.

10. Classify the following into slow and fast changes:

(i) Spinning of top

(ii) Formation of day and night

(iii) Formation of curd from milk

(iv) Change of season

(v) Making curd from milk by adding lemon juice.

Ans: (i) Fast change

(ii) Slow change

(iii) Slow change

(iv) Slow change

(v) Fast change.

11. Classify the following as slow or fast change:

- (i) Bearing of heart
- (ii) Change of seasons
- (iii) Burning of paper
- (iv) Weathering of rocks
- (v) Melting of wax
- (vi) Cooking of food
- (vii) Burning of wax
- (viii) Melting of ice cream
- (ix) Curding of milk
- (x) Formation of day and night

Ans:

- (i) Fast
- (ii) Slow
- (iii) Fast
- (iv) Slow
- (v) Fast
- (vi) Slow
- (vii) Fast
- (viii) Fast
- (ix) Slow
- (x) Slow

12. Write some changes happening in our body.

Ans:

- (a) Our nails grow
- (b) Our hair grows
- (c) We grow taller
- (d) Our weight increases.

13. Some common changes are given in Table 6.1. Which of these changes do you think can be reversed?

Table 6.1 Some common changes.

Change	Can be reversed
(i) Raw egg to boiled egg	Yes/No
(ii) Batter to idli	
(iii) Wet clothes to dry clothes	
(iv) Woollen yarn to knitted sweater	
(v) Grain to its flour	
(vi) Cold milk to hot milk	
(vii) Straight string to a coiled string	
(viii) Bud to flower	
(ix) Milk to paneer	
(x) Cow dung to biogas	
(xi) Stretched rubber band to its normal size	
(xii) Melting of ice-cream	

Ans. (i) No (ii) No (iii) Yes (iv) Yes
(v) No (vi) Yes (vii) Yes (viii) No
(ix) No (x) No (xi) Yes (xii) Yes.

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