Chapter 6. Changes Around Us

Very Short Q&A

Q1: Some changes can be reversed, some cannot be reversed. (TRUE/FALSE)

Ans: True

Q2: If we sharp a pencil its length decreases. Can this change be reversed?

Ans: No

Q3: After baking a roti on tawa, it is not possible to get back the ball of dough again. What type of change is this?

Ans: This is a change which cannot be reversed

Q4: A potter changes or shapes a lump of clay into a pot. Can this change be reversed?

Ans: No

Q5: Give an example of reversible change.

Ans: The shape and size of balloon can be changed by blowing it.

Q6: A man is carrying a mirror. He suddenly drops a mirror and mirror is broken. Can this change be reversed?

Ans: No

Q7: Raw egg is boiled. We can reverse this change. (TRUE/FALSE)

Ans: False

Q8: If we blow a balloon. The shape and size of balloon has changed. This is a_____ change.

Ans: Reversible

Q9: After making a ball with dough, a person rolls out a roti. Can he now change it back to a ball of dough?

Ans: Yes

Q10: A paper is changed into a shape of bat by cutting it. What kind of change it is?

Ans: This is a change which cannot be reversed

Q11: A sheet of paper is changed into a toy aeroplane by folding it. This is a reversible change. (TRUE/FALSE)

Ans: True

Q12: Batter is changed into dosa. This is _____.(reversible change/irreversible change)

Ans: Irreversible change

Q13: Cold milk is heated and it becomes hot. Which type of change it is?

Ans: Reversible change

Q14: A sheet of paper is folded to make an aeroplane. Then this paper is unfolded again. Is the size of paper same as before or after making an aeroplane?

Ans: Yes

Q15: Bud to flower is a _____ change.(reversible/irreversible)

Ans: Irreversible

Q16: A copper wire is folded to form a loop. Can this change be reversed?

Ans: Yes

Q17: Wet clothes get dry. This is a reversible change because _____.

Ans: They can again get wet if we put them in water.

Q18: By using woollen yarn a lady knitted a sweater. Can this change be reversed?

Ans: Yes

Q19: Milk to paneer is a reversible change. (TRUE/FALSE)

Ans: False

Q20: Biogas is prepared from cow dung. Can this change be reversed?

Ans: No

Q21: Metal expands on heating. (TRUE/FALSE)

Ans: True

Q22: If cold water is poured over a hot metal ring it_____ .(expand/contracts)

Ans: Contracts.

Q23: Water vapour changes into _____when it is cooled.

Ans: Liquid water

Q24: When metal ring is heated, it _____.

Ans: Expands

Q25: When water is heated, it changes into _____.

Ans: Water vapour

Q26: On lightening the candle the length of candle decreases. Can this change be reversed?

Ans: Yes.

Q27: A boy paints an apple on a piece of paper. Do you think that change in piece of paper can be reversed?

Ans: No

Q28: Conversion of water vapour into liquid water is a _____ change.

Ans: Reversible

Q29: Take a glass of water. Dissolve two tea spoons sugar in it. These are changes in water which can _____. (Be reversed/not be reversed).

Ans: Not be reversed

Q30: A rope is tied around a box. The shape of rope changes. What kind of change is this?

Ans: This is a reversible change.

Q31: When we burn a piece of wood, what changes occurs in it?

Ans: It turns into ash. It is not a reversible change.

Q32: Can change due to dissolving salt in water be reversed?

Ans: Yes.

Q33: By heating a substance or mixing it with some other substance, changes may occur in it. (TRUE/FALSE)

Ans: True

Q34: Cooking changes the flavour of vegetables. Can we reverse this change?

Ans: No

Q35: All changes around us can be reversed. (TRUE/FALSE)

Ans: False

Q36: Evaporation of water is reverse of condensation of water. (TRUE/FALSE)

Ans: True

Short Q&A

Q1: Why is ring of iron blade heated before fixing it into handle of a tool?

Ans: Ring of iron blade heated before fixing it into handle of a tool because on heating ring becomes slightly larger in size, therefore it expand and handle fits easily into it.

Q2: What happens when we keep on heating water in a pan?

Ans: When we keep on heating water in a pan, the quantity of water in the pan decreases.

Q3: Write two examples of changes which can be reversed.

Ans:

a) Drying the wet clothes.
b) Liquid water into water vapour.

Q4: Why is the quantity of water in a pan decreases when we keeps on heating it?

Ans: The quantity of water in a pan decreases when we keeps on heating it because water changes into its vapour

Q5: Which of the following are reversible changes:

a. Breaking a toy.
b. Melting of ice cream.
c. Preparing curd from milk
d. Changing shape of cloth by folding it.

Ans: Melting of ice cream and changing shape of cloth by folding it.

Q6: Write two examples of changes which cannot be reversed?

Ans:

a) Breaking a glass.
b) Preparing curd from milk.

Q7: Write True or false:

a. Ripening of apple is a reversible change
b. Metal expands on heating.
c. Shortening the length of dress by folding it is not a reversible change.
d. Cooling the hot milk is a reversible change.

Ans:

a. False
b. True
c. False
d. True

Q8: Conversion of water into water vapour is a reversible change. Why?

Ans: Conversion of water into water vapour is a reversible change because water vapour when cooled gets converted into liquid water again.

Q9: A blacksmith heats a piece of iron till it becomes red hot and then beats it into a desired shape. What changes have taken palace in iron on heating?

Ans: An iron expands and becomes soft on heating. Then it can be changed into desired shape.

Q10: On lightening the candle its length decreases. How can this be reversed?

Ans: If we take some wax in a pan and heat it, this change can be reversed.

Q11: Melting of ice is a reversible change. Why?

Ans: Melting of ice is a reversible change because on melting ice changes into water but the water can again be freezed to change it into ice

Q12: How can a change occur in a substance?

Ans: A change may occur by heating a substance or by mixing it with some other.

Q13: What changes occur in a match stick used for lightening? What type of change is it?

Ans: Match stick changes into ash and this is a change that cannot be reversed.

Q14: We dissolve salt in water. How can we reverse this change?

Ans: We can reverse this change by evaporation of water by which salt can be obtained. Water vapours are condensed to get liquid water.

Long Q&A

Q1: How is metal rim fixed on a wooden wheel of a cart? How is the changes made in that metal?

Ans: Metal rim is made slightly smaller than the wooden wheel. On heating rim expands and fits into wheel. Cold water is then poured over rim, which contracts and fits tightly onto the wheel.

Q2: 2. How the iron blade is fixed into a wooden handle in tools used to dig the soil?

Ans: Iron blade of tools has a ring in which the wooden handle is fixed. Normally the ring is slightly smaller in size than wooden handle. To fix handle ring is heated and it expands. Now handle easily fits into the ring. When ring cools down it contracts and fits into handle.