



# CHEMISTRY

## BOOKS - ICSE

### PHYSICAL AND CHEMICAL CHANGES

#### Exercise

1. (a) Define :

(i) a physical change

(ii) a chemical change

(b) Give two examples for each of the above two changes.



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2. What are reversible and irreversible changes ?

Give one example for each.



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3. Mention a change which is always

(a) desirable

(b) undesirable

(c) periodic



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4. Is burning a physical change or a chemical change? Why?



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5. A burning candle shows both physical and chemical changes. Explain.



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6. State difference between boiling and evaporation.



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7. State four differences between physical and chemical changes.



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8. Name a chemical change which takes place in presence of :

(a) Heat

(b) Light

(c) Electricity



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## Objective Type Questions Fill In The Blanks

1. Changes in which new substances are formed are called ..... Changes.



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2. Melting of ice is a physical change.



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3. When a candle burns, wax melts, melting of wax is a \_\_\_\_\_ change.



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4. Chemical change occurs as a result of \_\_\_\_\_ between two substances.



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5. Burning of a fuel is a \_\_\_\_\_ change.



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6. Revolution of the Earth is an example of



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7. Growing of a seedling into a plant is \_\_\_\_\_ change.



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## Objective Type Questions

1. State whether the following are physical or chemical changes.

glowing of a bulb



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2. State whether the following are physical or chemical changes.

burning of sugar



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3. State whether the following are physical or chemical changes.

heating of water



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4. State whether the following are physical or chemical changes.

growing of a piglet into a pig



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5. State whether the following are physical or chemical changes.

burning of wood



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6. State whether the following are physical or chemical changes.

passing electric current through a heater's rod



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7. State whether the following are physical or chemical changes.

water cycle in nature



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8. State whether the following are physical or chemical changes.

respiration in living beings



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9. State whether the following are physical or chemical changes.

shaping a piece of glass



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**10.** State whether the following are physical or chemical changes.

lightning



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**11.** State whether the following are physical or chemical changes.

dissolving sugar in water



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**12.** State whether the following are physical or chemical changes.

heating a mixture of iron filings and sulphur



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**13.** State whether the following are physical or chemical changes.

mixing oil with water



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**14.** State whether the following are physical or chemical changes.

cutting wood into small pieces



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**15.** State whether the following are physical or chemical changes.

photosynthesis



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**16.** State whether the following are physical or chemical changes.

Digestion of food



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**17.** State whether the following are physical or chemical changes.

Melting of wax



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**18.** State whether the following are physical or chemical changes.

Boiling of an egg

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**19.** State whether the following are physical or chemical changes.

Slaking of lime

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## Objective Type Questions Match The Following

1.

Column A

Column B

<i>a</i> Evaporation of water	<i>i</i> Non-periodic change
<i>b</i> Milk turning sour	<i>ii</i> Periodic change
<i>c</i> Earthquake	<i>iii</i> Chemical change
<i>d</i> Change of seasons	<i>iv</i> Physical change
<i>e</i> Glowing of bulb	<i>v</i> Reversible change



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## Objective Type Questions True Or False

1. Cutting of paper into pieces is a chemical change.



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2. Rusting of iron is a chemical change.



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3. Earthquake is a desirable change.



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4. Melting of ice is a physical change.



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5. Burning of sugar is a temporary change.



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## Objective Type Questions Multiple Choice Questions

1. A substance which can not sublime is

A. iodine

B. camphor

C. sugar

D. dry ice

**Answer:**



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2. When you put some ice cubes in a glass, droplets of water are formed on the outerwall of the glass. This explains the phenomenon of

A. melting

B. freezing

C. condensation

D. evaporation

**Answer:**



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**3. Burning is a**

A. slow process

B. fast process

C. natural process

D. none of the above

**Answer:**



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4. Which one of the following is volatile in nature ?

A. common salt

B. petrol

C. water

D. milk

**Answer:**



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5. An example of both physical and chemical change is

A. burning of candle

B. melting of ice

C. cooking of food

D. glowing of bulb



**Answer:**



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**6.** The compound rust is a hydrated oxide of

A. copper

B. aluminium

C. iron

D. gold

**Answer:**



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7. When sugar is heated, its colour changes into

A. red

B. blue

C. black

D. grey

**Answer:**



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8. A pop sound is heard when a lighted match stick is brought near the mouth of a jar. This indicates the release of gas.

A. oxygen

B. hydrogen

C. nitrogen

D. water-vapour

**Answer:**



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9. When we add water to the following substances, which one will show a chemical change ?

A. salt

B. sugar

C. oil

D. quick lime

**Answer:**



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