

WELLAND GOULDSMITH SCHOOL, PATULI

CLASS-VII

CHEMISTRY

CHANGES IN THE WORLD AROUND US

ANSWER KEY

1.I.1.Undesirable change.

2.reversible.

3.chemical.

4.periodic.

2.II.1.natural change.

2.undesirable.

3.slow.

4.physical.

5.chemical.

3.I Evaporation, Boiling, Melting, Dissolution.

4.Give one word for the following: -

i)Change of state from solid to liquid :- **melting/fusion**

ii)Change of state from liquid to gas :- **Evaporation/boiling**

5.Answer the following questions: -

i)Define dissolution.

Ans - The process in which a substance mixes thoroughly in another substance is known as dissolution example salt in water.

ii)How does rate of evaporation change when temperature is increased?

Ans-When temperature is increased the particles gain more energy and being to vibrate more rapidly as a result their tendency to escape increases,so the rate of evaporation increases with increase of temperature.

iii)Why is rusting referred as slow eating of metals?

Ans-The process in which iron forms a layer of powdered iron oxide over it in the presence of air and water is known as rusting.This rust is loosely attached to the metal surface and gets removed easily.Thus metal is lost.Hence, rusting can be defined as the slow eating away of metal.

iv)Differentiate between: -

a) Rusting and Burning.

Rusting	Burning
1.It is a slow process.	1. It is a fast process.
2.It takes place at room temperature.	2.It takes place at higher temperature.
3.it takes place on metal surface.	3.it takes place for combustible substances.

b) Burning and Respiration.

Burning	Respiration
1.it is a fast process.	1.it is a slow process.
2.it takes place at higher temperature.	2.it takes place at body temperature.
3.it takes place for combustible substances.	3.it takes place in living organism.
4.it do not involve any enzyme.	4.enzymes are biocatalyst and these are required for respiration.

v)What is evaporation? How does water change to its vapor state?

Ans- The process in which liquid changes into vapour is known as evaporation.

When heat is supplied to a liquid (example water), the molecules start vibrating with increase speed and the particles in the liquid move in all directions. Increase in amount of kinetic energy reduces the force of attraction between the existing molecules and these molecules leave the surface and change into vapour state.

6.Select the odd one out giving reason: -

Rusting, Burning, Combustion, **Melting**.

Ans- Melting is a physical change. Others are chemical change.