

Worksheet

I 1. glucose and oxygen

2. freezing

3. water vapour and CO_2

4. chemical change is involved in respiration of human being.

5. When a substance undergoes a change in state, colour or size is a physical change.

1. Fill in the blanks.

i) sublimation is considered a change of state of matter.

ii) sublimation involves a physical change.

iii) During sublimation, a solid on heating turns directly into vapour and coming back to solid.

iv) Ammonium chloride, a sublimable solid undergoes dissociation on heating

v) Sublimation of Iodine is an example of physical change

Short Answer type question (2 marks)

1. When milk is kept aside in a dish for a few hours or more, it is observed that milk turns into curd. This is a chemical change. A new product is formed. Curd and also some chemical reaction take place.

Short answer type question (3 marks)

1. <u>Physical change</u>	<u>Chemical change</u>
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a) change is temporary and mainly reversible	a) change is permanent and mainly irreversible
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b) No new substance is formed. There is change in only physical properties	b) New substances are formed, with entirely different properties
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Physical change

c) Heat or light may or may not be given out or consumed

Chemical change

c) Heat or light or both are given out or consumed

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2. Interconversion of matter involves matter changing from one state to another and back to its original state, by change in temperature or pressure. It is a physical change in which one state of matter changes into another state and back again to original state.

Long type questions (5 marks)

a) Desirable and undesirable changes.

* changes brought about by nature or man which produce by useful or good

* changes brought about by nature or man which produces - useless or bad product.

● results

* ex: -. man training in curd are the examples of desirable change

* ex: - flood and earthquakes are examples of undesirable change

b) Periodic changes ; non-Periodic changes

* changes that are repeated at a regular interval of time is called periodic changes

* ex - change of day and night

* changes that are not repeated at a regular interval of time is called non-periodic change

ex: - landslides and earthquakes

C. Slow change

* change which occurs ~~very~~ over days, months or years

* ex: growth of a tree

fast change

* changes which occur ~~very~~ very rapidly in seconds or minutes

* burning of two papers

d) Natural and man made

* The change which are brought about by nature itself.

* The changes which are brought by humans

Natural ch

and are not under
the control of human
are called natural
changes

2. ex - change of
season, tides in the
sea, ageing of plant
etc

man made ch

are called man
made changes

ex - burning of fuel
, cutting, harve
switching on lights

Reversible process

Irreversible process

* It is a slow process going through a series of matter stages with each stage maintaining equilibrium between the system and surroundings.

* A reversible process can be made to proceed in forward or backward direction.

* In this process the system attains final state with a measurable speed. During the transformation, there is no equilibrium maintained between the system and surroundings.

* Irreversible process can take place in one direction only.