

OBJECTIVE TYPE QUESTIONS

Physical & Chemical Changes

25 marks

Q.1 Fill in the blanks with the appropriate words for each of the statements given below: [5]

1. Germination of seeds is considered a _____ [physical/chemical] change.
2. If a change is permanent & irreversible it is considered a _____ [chemical/physical] change.
3. Heating a piece of iron, is considered a _____ [physical/chemical] change, while heating a piece of coal [carbon] is considered a _____ [physical/chemical] change.
4. Chemical changes may involve exchange of energy in the form of _____ & _____ [light/sound/magnetic/heat].
5. Change of milk to curd is a _____ [desirable/undesirable] change.

Q.2 State whether the following statements are *true* or *false*. If false write - the correct statement [5]

1. Desirable changes are meaningful, while undesirable changes are unfavourable.
2. During physical changes, the composition of the original substance is not altered, but the properties of the original substance are altered.
3. During a chemical change the composition of the original substance is not altered & the change is irreversible.
4. Melting of butter & wax are examples of chemical changes.
5. Melting of ice is an exothermic, irreversible chemical change.

Q.3 Match the examples of changes in List I with the correct type in List II. [5]

LIST I

1. Expansion of a steel rod on heating
2. Rotting of eggs
3. Milk turning sour
4. Tarnishing of copper
5. Separation of naphthalene from a mixture of naphthalene & sodium chloride.

LIST II

- A: Physical
B: Chemical

Q.4 Fill in the blanks with the correct words for each of the statements given below: [5]

1. Sublimation is _____ [considered/not considered] a change of state of matter.
2. Sublimation involves a _____ [chemical/physical] change.
3. During sublimation a solid on heating turns directly into _____ [liquid/vapour] & on cooling back to _____ [solid/liquid].
4. Ammonium chloride, a sublimable solid undergoes _____ [synthesis/dissociation] on heating.
5. Sublimation of iodine is an example of _____ [physical/chemical] change.