

I. Answer the following:

1. Beta particle is designated as β^-
2. Half-life of an atom is a period of decay of one half of the initial atoms.
3. α particles have the least penetration power.
4. $^{238}_{92}\text{U} \rightarrow {}^4_2\text{He} + {}^{234}_{90}\text{Th}$ is alpha decay.
5. The relationship between decay constant and half of radioactive nuclei is $T_{1/2} = 0.693/\lambda$.

II. Answer in short:

1. Radioactivity: It is a property exhibited by certain types of matter of emitting energy and subatomic particles simultaneously. Radioactivity can be seen in such forms:
 - alpha decay
 - beta decay
 - gamma decay
2. Nuclear fission and nuclear fusion.

Nuclear fission

A nuclear fission reaction is splitting up of a large atom or a molecule into two or more smaller ones.

* Example: Atomic bomb

Nuclear fusion

A nuclear fusion is the process of process of combination of two or more lighter atoms or molecules into larger ones.

* Example: Hydrogen bomb

Advanced Inorganic Chemistry Study Guide

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