

I. Answer the following:

1. Beta particles is designated as ${}_{-1}^0e$
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. ${}_{92}^{238}\text{U} \rightarrow {}_2^4\text{He} + {}_{90}^{234}\text{Th}$ is a/an 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.

<u>Nuclear fission</u>	<u>Nuclear fusion</u>
A nuclear fission reaction is splitting up of a large atom or a molecule into two or more smaller ones.	A nuclear fusion is the process of process of combination of two or more lighter atoms or molecules into larger ones.
* <u>Example</u> : Atomic bomb	* <u>Example</u> : Hydrogen bomb

Advanced Inorganic Chemistry Study Guide

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