

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.  $\alpha$  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

**Richard B. Heslop, Percy L. Robinson**



## **Advanced Inorganic Chemistry Study Guide:**

**Inorganic Chemistry** R.B. Heslop,1976      **Inorganic Chemistry** R. B. Heslop,P. L. Robinson,2000      **Inorganic Chemistry** R. B. Heslop,1960      Inorganic Chemistry R. B. Heslop,Percy Lucock Robinson,1967      **Advanced Topics in Inorganic Chemistry** Cybellium Ltd,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www cybellium com](http://www.cybellium.com)      **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1968      *London University Guide* ,1903      **The Jamestown College Bulletin** Jamestown College,1919      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965 70      **Peterson's Annual Guides/graduate Study** Peterson's Guides, Inc,1982      **Annual Catalogue of the University of Kansas** University of Kansas,1905      *Brief Subject Catalogue of the William B. Stephens Memorial Library* William B. Stephens Memorial Library, Philadelphia,1913      **Catalogue of All Books in the Circulating and Reference Departments of the Public School Library, Columbus ...** Columbus (Ohio). Public School Library,1897      **Annual Catalogue of the University of Kansas** Kansas. University,University of Kansas,1899      **Calendar** University of Cape Town,1974      Inorganic chemistry Richard B. Heslop,Percy L. Robinson,1971      **The American Catalogue** ,1908 American national trade bibliography      The American Catalog ,1881      **U.S. Naval Training Bulletin** ,1948      *The Black and Blue Jay* ,1891

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