

## Chapter 39 The Atomic Nucleus and Radioactivity

## Exercises

## 39.1 The Atomic Nucleus (pages 783–784)

- Circle the letter of each nucleon.  
☒ a. proton ☒ b. neutron  
c. electron d. positron
- Is the following sentence true or false? The mass of a proton and an electron are nearly the same. false
- Most of an atom's mass is located in its nucleus.
- Describe the relationship between the number of protons and the number of electrons in a neutral atom.  
They are equal.
- Circle the letter of the particle that determines the kind of element and the chemical properties of an atom.  
☒ a. proton b. neutron  
c. electron d. positron
- Describe the primary role of the neutrons in the nucleus of an atom.  
They act as glue, holding the nucleus together.
- Circle the letter that best describes the strong force.  
a. an attractive magnetic force  
b. a repulsive electric force  
☒ c. an attractive nuclear force  
d. an attractive gravitational force
- Is the following sentence true or false? The strong force acts across large distances. false
- The two major forces that act on a nucleus are the strong force and electrical forces.
- A nucleus needs a certain ratio of protons to neutrons to make it stable.

## 39.2 Radioactive Decay (pages 785–786)

- What will a lone neutron decay into?  
a proton and an electron (plus an antineutrino)
- Particles that decay spontaneously and emit particles and energy are said to be radioactive.
- Explain what is meant by saying that radioactivity is governed by mass-energy equivalence.  
Particles decay only when their combined products have less mass after decay than before.
- All atoms with atomic numbers greater than 83 decay in one way or another.

# The Nucleus Chapter 30 Study Guide Answer

**Joseph J. Boyle, Douglas C. Giancoli**



## **The Nucleus Chapter 30 Study Guide Answer:**

**Student Study Guide and Solutions Manual** Bo Lou, 2002-08      **Student Study Guide and Selected Solutions Manual, Volume 2** Bo Lou, 2006-05      **A Level Physics MCQ (Multiple Choice Questions)** Arshad Iqbal, 2019-05-17

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