

PDF Quiz 1
RDCH 702
Assigned: 29-Aug-18
Due: 5-Sep-18

Last Name: Answers
First Name: _____

1. Define isotope?

Describes atoms with different number of neutrons but the same number of protons. Can also describe an atom with a specific neutron and proton number.

2. What is the fission yield from ^{233}U for A=99 4.9 %

3. Which has more stable isotopes, Ni, Cr or Fe? Ni

4. What is the heaviest stable isotope? 209Bi

5. What is gamma decay?

Photon emitted from an excited nuclear state.

6. What is the decay mode of ^{100}Mo ? Double Beta Decay

7. Using the chart of the nuclides select the correct information for ^{235}U . Do not select information for $^{235\text{m}}\text{U}$

N=146 Undergoes beta decay Z=92 Half-life 26 minutes

spin 7/2 spin 1/2 Half-life 7.04E8 a Decays to ^{231}Th

8. Select the stable isotopes of Sn.

111 112 113 114 115 116 117

118 119 120 121 122 123 124

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