**Mini-quiz #7 Chemistry 1114 section 2 (Fong) 10 Sept 2014 6 pts A**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Fill in the missing information (2 points for each completely correct line)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Atomic # | Mass # | symbol | #p | #n | #e | Atom charge |
| **32** | 73 | **Ge** | **32** | 41 | 32 | 0 |
| **14** | 29 | Si | **14** | **15** | 14 | 0 |

1. Compute the average atomic mass of the hypothetic element Fu given the information below:

Fu mass # % abundance=Pk

255.0 10

260.0 40 average mass of Fu= \_\_\_\_**260.5**\_\_\_\_\_\_\_\_\_\_\_\_ ( to nearest 0.1 )

262.0 50

**Mini-quiz #7 Chemistry 1114 section 2 (Fong) 10 Sept 2014 6 pts B**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Fill in the missing information (2 points for each completely correct line)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Atomic # | Mass # | symbol | #p | #n | #e | Atom charge |
| **33** | **75** | As | **33** | 42 | **33** | 0 |
| **47** | 107 | **Ag** | 47 | **60** | 48 | **-1** |

1. Compute the average atomic mass of the hypothetic element Bo given the information below:

Bo mass # % abundance=Pk

189.0 40

193.0 45 average mass of Bo= \_\_\_\_\_191.0\_\_\_\_\_\_\_\_\_\_\_ ( to nearest 0.1 )

190.0 15

**Mini-quiz #7 Chemistry 1114 section 2 (Fong) 10 Sept 2014 6 pts C**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Compute the average atomic mass of the hypothetic element Ug given the information below:

Ug mass # % abundance=Pk

300.0 30

310.0 20 average mass of Ug= \_\_309.5\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( to nearest 0.1 )

315.0 50

2)Fill in the missing information (2 points for each completely correct line)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Atomic # | Mass # | symbol | #p | #n | #e | Atom charge |
| **74** | 183 | W | 74 | **109** | 74 | 0 |
| **23** | 50 | V | 23 | **27** | 23 | 0 |