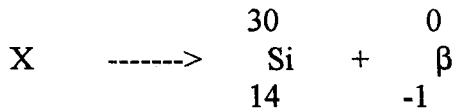


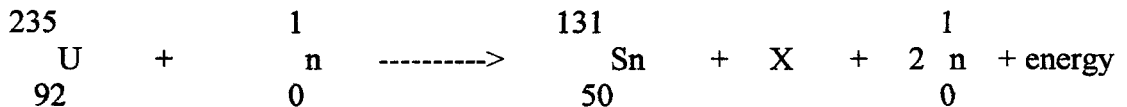
54. Absolute zero is
 a) 0°C b) 0°F c) -273°C d) -273°F e) 273 K
55. A operating room had a temperature of 20°C. What is that on the Fahrenheit scale?
 a) 68° F b) 4° F c) 74° F d) -325° F
56. -52° Celsius is _____ Kelvin
 a) -221 b) 221 c) 325 d) -325
57. How many calories does it take for 1 gram of ice at 0° C to melt into liquid water at 0°C?
 a) 1 b) 40 c) 80 d) 120 e) 540
58. The melting of ice is a _____ change
 a) physical b) spiritual c) chemical
- 59 - 61 Use the following answers a) +1 b) -1 c) +2 d) -2 e) 0
59. The charge on an alpha particle
60. The charge on an electron
61. The charge on a positron
62. A radioactive element has a half-life of 2 hours. If there were 200 radioactive atoms initially, how many radioactive atoms would remain after 6 hours?
 a) 25 b) 33 c) 50 d) 66 e) 100

63. Given:



"X" is a) Al b) Mg c) Ga d) P e) Zn

64. Given:



What is the **ATOMIC MASS** of "X"?

- a) 42 b) 106 c) 105 d) 104 e) 103
65. Positron Emission Tomography, PET scans utilize which atomic particle?
 a) positrons