

81. (4)
82. (3)
83. (4)
84. (3)
85. (1)
86. (1)
87. (2)
88. (3) They exist in the nature in the ratio of 1 : 2 : 3 respectively. The statement is incorrect as their mass numbers are in the ratio 1 : 2 : 3 respectively.
89. (1) 
$$\text{C(s)} + \text{H}_2\text{O(g)} \xrightarrow{1270\text{ K}} \underbrace{\text{CO(g)} + \text{H}_2\text{(g)}}_{\text{(Water gas)}}$$
90. (1) Hydrogen of high purity (> 99.95%) is obtained by electrolysis of warm aqueous barium hydroxide between nickel electrodes.