

AP PSYCHOLOGY
DR. PAUL L. BAILEY

Activity 0830
Wednesday, August 30, 2023

Name:

Problem 1. Copy the sketch of the neuron, as projected. Then, label parts A, B, C, and D.

Problem 2. Consider the periodic table below.

Periodic Table of the Elements

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|---|--|---|---|--|--|--|--|---|--|---|--|--|---|---|---|---|---|---|---|---|---|---|--|---|---|--|-------------|--------|--|------|--|------------------------|--|--|--|
| | | | | | | | | | | | | | | | | <table border="1" style="margin: auto;"> <tr> <td>Atomic Number</td> <td>Atomic Mass</td> </tr> <tr> <td colspan="2" style="text-align: center;">Symbol</td> </tr> <tr> <td colspan="2" style="text-align: center;">Name</td> </tr> <tr> <td colspan="2" style="text-align: center;">Electron Configuration</td> </tr> </table> | | | | | | | | | | | | | | | | Atomic Number | Atomic Mass | Symbol | | Name | | Electron Configuration | | | |
| Atomic Number | Atomic Mass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Symbol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electron Configuration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 1A 1A H Hydrogen 1.008 | | | | | | | | | | | | | | | | | 2 2A 2A He Helium 4.003 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 3A 1A Li Lithium 6.941 | 4 4A 2A Be Beryllium 9.012 | | | | | | | | | | | | | | | | | 5 3A 3A B Boron 10.81 | 6 4A 4A C Carbon 12.011 | 7 5A 5A N Nitrogen 14.007 | 8 6A 6A O Oxygen 15.999 | 9 7A 7A F Fluorine 18.998 | 10 8A 8A Ne Neon 20.180 | | | | | | | | | | | | | | | | | | |
| 11 1A 1A Na Sodium 22.990 | 12 2A 2A Mg Magnesium 24.305 | 3 3B 3B Sc Scandium 44.956 | 4 4B 4B Ti Titanium 47.88 | 5 5B 5B V Vanadium 50.942 | 6 6B 6B Cr Chromium 51.996 | 7 7B 7B Mn Manganese 54.938 | 8 8 8 Fe Iron 55.845 | 9 9 9 Co Cobalt 58.933 | 10 10 10 Ni Nickel 58.693 | 11 1B 1B Cu Copper 63.546 | 12 2B 2B Zn Zinc 65.38 | 13 3A 3A Al Aluminum 26.982 | 14 4A 4A Si Silicon 28.086 | 15 5A 5A P Phosphorus 30.974 | 16 6A 6A S Sulfur 32.06 | 17 7A 7A Cl Chlorine 35.453 | 18 8A 8A Ar Argon 39.948 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 1A 1A K Potassium 39.098 | 20 2A 2A Ca Calcium 40.078 | 21 3B 3B Sc Scandium 44.956 | 22 4B 4B Ti Titanium 47.88 | 23 5B 5B V Vanadium 50.942 | 24 6B 6B Cr Chromium 51.996 | 25 7B 7B Mn Manganese 54.938 | 26 8 8 Fe Iron 55.845 | 27 9 9 Co Cobalt 58.933 | 28 10 10 Ni Nickel 58.693 | 29 11 11 Cu Copper 63.546 | 30 12 12 Zn Zinc 65.38 | 31 3A 3A Ga Gallium 69.723 | 32 4A 4A Ge Germanium 72.631 | 33 5A 5A As Arsenic 74.922 | 34 6A 6A Se Selenium 78.971 | 35 7A 7A Br Bromine 79.904 | 36 8A 8A Kr Krypton 84.798 | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 1A 1A Rb Rubidium 85.468 | 38 2A 2A Sr Strontium 87.62 | 39 3B 3B Y Yttrium 88.906 | 40 4B 4B Zr Zirconium 91.224 | 41 5B 5B Nb Niobium 92.906 | 42 6B 6B Mo Molybdenum 95.94 | 43 7B 7B Tc Technetium 98.906 | 44 8 8 Ru Ruthenium 101.07 | 45 9 9 Rh Rhodium 101.07 | 46 10 10 Pd Palladium 106.42 | 47 11 11 Ag Silver 107.868 | 48 12 12 Cd Cadmium 112.411 | 49 3A 3A In Indium 114.818 | 50 4A 4A Sn Tin 118.710 | 51 5A 5A Sb Antimony 121.757 | 52 6A 6A Te Tellurium 127.6 | 53 7A 7A I Iodine 126.905 | 54 8A 8A Xe Xenon 131.29 | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 1A 1A Cs Cesium 132.905 | 56 2A 2A Ba Barium 137.327 | 57-71 Lanthanide Series | 72 4B 4B Hf Hafnium 178.49 | 73 5B 5B Ta Tantalum 180.948 | 74 6B 6B W Tungsten 183.84 | 75 7B 7B Re Rhenium 186.207 | 76 8 8 Os Osmium 190.23 | 77 9 9 Ir Iridium 192.225 | 78 10 10 Pt Platinum 195.084 | 79 11 11 Au Gold 196.967 | 80 12 12 Hg Mercury 200.592 | 81 3A 3A Tl Thallium 204.384 | 82 4A 4A Pb Lead 207.2 | 83 5A 5A Bi Bismuth 208.980 | 84 6A 6A Po Polonium 209 | 85 7A 7A At Astatine 209 | 86 8A 8A Rn Radon 222.018 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 1A 1A Fr Francium 223.021 | 88 2A 2A Ra Radium 226.105 | 89-103 Actinide Series | 104 4B 4B Rf Rutherfordium 261 | 105 5B 5B Db Dubnium 262 | 106 6B 6B Sg Seaborgium 263 | 107 7B 7B Bh Bohrium 264 | 108 8 8 Hs Hassium 265 | 109 9 9 Mt Meitnerium 266 | 110 10 10 Ds Darmstadtium 269 | 111 11 11 Rg Roentgenium 272 | 112 12 12 Cn Copernicium 277 | 113 3A 3A Uut Ununtrium 284 | 114 4A 4A Fl Flerovium 285 | 115 5A 5A Uup Ununpentium 288 | 116 6A 6A Lv Livermorium 289 | 117 7A 7A Uus Ununseptium 289 | 118 8A 8A Uuo Ununoctium 289 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 57 Lanthanide Series La Lanthanum 138.905 | 58 Ce Cerium 140.116 | 59 Pr Praseodymium 140.908 | 60 Nd Neodymium 144.242 | 61 Pm Promethium 144.913 | 62 Sm Samarium 150.36 | 63 Eu Europium 151.964 | 64 Gd Gadolinium 157.25 | 65 Tb Terbium 158.925 | 66 Dy Dysprosium 162.50 | 67 Ho Holmium 164.930 | 68 Er Erbium 167.259 | 69 Tm Thulium 168.934 | 70 Yb Ytterbium 173.054 | 71 Lu Lutetium 174.967 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 89 Actinide Series Ac Actinium 227.028 | 90 Th Thorium 232.038 | 91 Pa Protactinium 231.036 | 92 U Uranium 238.029 | 93 Np Neptunium 237.048 | 94 Pu Plutonium 244.064 | 95 Am Americium 243.061 | 96 Cm Curium 247.070 | 97 Bk Berkelium 247.070 | 98 Cf Californium 251.083 | 99 Es Einsteinium 252.083 | 100 Fm Fermium 257.095 | 101 Md Mendelevium 258.10 | 102 No Nobelium 259.10 | 103 Lr Lawrencium 262 | | | | | | | | | |

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Draw the election shell structure of the following atoms. State the valence.

(a) H Hydrogen

(b) O Oxygen

(c) Mg Magnesium

(d) Cl Chlorine