## **Electron Configuration Practice Worksheet**

In the space below, write the unabbreviated electron configurations of the following elements:

1)	sodium	
2)	iron	
3)	bromine	
4)	barium	
5)	neptunium	
In the		write the abbreviated electron configurations of the following
6)	cobalt	
7)	silver	
8)	tellurium	
9)	radium	
10)	lawrencium	
Deten	mine what elem	nents are denoted by the following electron configurations:
11)	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3	p <sup>4</sup>
12)	$1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^1$	
13)	[Kr] 5s <sup>2</sup> 4d <sup>10</sup> 5p	3
14)	[Xe] 6s <sup>2</sup> 4f <sup>14</sup> 5d <sup>6</sup>	
15)	[Rn] $7s^25f^{11}$	
Deten	mine which of the	ne following electron configurations are not valid:
16)	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>2</sup> 4d <sup>10</sup> 4p <sup>5</sup>	
17)	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>3</sup> 3d <sup>5</sup>	
18)	[Ra] 7s <sup>2</sup> 5f <sup>8</sup>	
19)	[Kr] 5s <sup>2</sup> 4d <sup>10</sup> 5p <sup>5</sup>	
20)	[Xe]	