Question 1: You are given a template of the shell structure of the atom. Draw, label, and correctly color code the shell structure of the last element on the periodic table (Og with an atomic number of 118)





Question 2: You are given a template of the shell structure of the atom. Draw and label, and correctly color code the orbital structure of the last element on the periodic table (Og with an atomic number of 118).





Question 3. Find and list the errors in any two of the following shell structures of the last element on the periodic





A solved problem is given belo to help you answer the above questions



p not possible	
d missing	
'd not possible	
f: 1 electron missing	

Evaluation Rubric

For Question 1 (Total 25 Pts)	For Question 2 (Total 25 Pts)	For Question 3
1 Pt each for the following (Total 9 Pts)	1 Pt for the following (Total 1 Pt) Names of subshells	Each error correctly identified takes 0.5 Pt
 Nucleus Proton Noutrop 	2 Pt each for the following (Total 16 Pts)	
4. Electron	1. Names s orbitals	
5. Valence Shell	2. Names of p orbitals	
6. Penultimate shell	3. Names of d orbitals	
7. Antepenultimate shell	4. Names of f orbitals	
8. Kernel	5. Correct number of boxes for s orbitals	
9. Valence Sheath	6. Correct number of boxes for p orbitals	
	7. Correct number of boxes for d orbitals	
2 Pt each for the following (Total 10 Pts)	8. Correct number of boxes for f orbitals	
 Names of First Seven Shells Correct color coding for Valence 	3 Pt for the following (Total 3 Pts)	
Sheath	Names of p suborbitals	