

# 8 • Electron Configurations & Periodicity

## WRITING ELECTRON CONFIGURATIONS

For each given element, fill in the orbital diagram and then write the electron configuration for the element.

1.	2.	3.	4.	5.	6.
Element: Ar # of e <sup>-</sup> 's: <u>18</u>	Element: Mg # of e <sup>-</sup> 's: <u>12</u>	Element: N # of e <sup>-</sup> 's: <u>7</u>	Element: Li # of e <sup>-</sup> 's: <u>3</u>	Element: P # of e <sup>-</sup> 's: <u>15</u>	Element: Cl # of e <sup>-</sup> 's: <u>17</u>

Write the electron configurations of each of these in **long form** and **short form**:

- Ar 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>6</sup>  
 Ar [Ne] 3s<sup>2</sup> 3p<sup>6</sup>
- Mg 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup>  
 Mg [Ne] 3s<sup>2</sup>
- N 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>3</sup>  
 N [He] 2s<sup>2</sup> 2p<sup>3</sup>
- Li 1s<sup>2</sup> 2s<sup>1</sup>  
 Li [He] 2s<sup>1</sup>
- P 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>3</sup>  
 P [Ne] 3s<sup>2</sup> 3p<sup>3</sup>
- Cl 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>5</sup>  
 Cl [Ne] 3s<sup>2</sup> 3p<sup>5</sup>



7. Fill in the orbital diagram for the element, Fe, and write the electron configuration of Fe in the long and short form.



# Part C Electron Configuration Answers

**Alla Appa Rao**



## **Part C Electron Configuration Answers:**

**Regents Exams and Answers: Chemistry--Physical Setting Revised Edition** Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day **E3**

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