# Quiz 2.2 – Electronic Structure

Name: Key/

### Ouestion 1

List the four different types of electron subshells and roughly sketch what orbitals in the first three look like









#### Question 2

Tell how many electrons can be contained in each of the following:

- $\circ$  A d orbital  $\gtrsim$
- o A p subshell 6
- o The 3rd shell 18

## Question 3

List all subshells in order of increasing energy from 1s to 7p

$$15-25-2p-3s-3p-4s-3d-4p-5s-4d-5p-6s-4f-5d-6p-7s-5f-6d-7p$$
Question 4

Give the complete electronic configuration for the following:

#### Question 5

Give the electronic configuration using noble-gas notation for the following: