Packet 7C

1) Define the following terms:

a) wave function

b) electron density

c) radial probability

d) atomic orbitals

2) List the four quantum numbers and define what they represent.

3) (2pts) Draw the shapes of an s orbital and a p orbital.

4) List the possible quantum numbers for each of the following orbitals.

3p	2s	$3d_{xy}$	5f

5) Circle the orbital at a higher energy.

a)   4p   3d

b)   3s   3p