Quantum Model HW – Ch. 4 (p. 98 – 104)								
PA	RT A - WAVE	S & QUANTUN	MECHANICS					
1.	. What experimental evidence supported de Broglie's idea that electrons have wave-like properties?							
2.	Explain the c	lifference bet	ween Schrödi	inger's orbitals	s and Bohr's e	lectron orbits.		
	RT B – QUANT				hai af al-a-aine			
3.	For each quantum number, list the symbol and give a brief description.							
	Quantum #	Symbo	OI	Description				
	Principal							
	Angular Momentum							
	Magnetic							
	Spin							
4.	Draw the sha	apes of the fo	llowing types	of orbitals:				
s-orbital					p-orbital			
5.	Complete the following table to indicate the total number of orbitals in each energy level (n). In the remaining columns, specify how many of those orbitals are s, p, d, and f.							
	Level n	Total # of orbitals	# of <i>s</i> -orbitals	# of <i>p</i> -orbitals	# of <i>d</i> -orbitals	# of <i>f</i> -orbitals		
	1							
	2							
	3							
	4							
Qua	antum Model o	f the Atom – C	Ch. 4				CHEM	

Name _____ Period ____ Date ____