XI Chemistry Worksheet		
Time: 30 min	Ch#2 : Structure of Atom-02	Full Marks: 20
Instructions: 1. All questions are comp 2. Please give the explana	ulsory. ation for the answer where applica	ble.
Q1 -Find the wavelength of rad a hydrogen atom. (RH = 1.09 >	liation emitted when an electron from infin < 10 ⁷ m ⁻¹)	ity falls to stationary state 1 in
02 - Explain Hund's rule with th	he help of example of nitrogen	(3 Marks)
		(3 Marks)
Q3 - Derive de Broglie's relation	nship. What is its significance?	(5 Marks)
Q4 - The frequency of a radiation nanometer.	on is 6 x 10^{14} cycles / sec. Find out the wa	avelength of radiation in (2 Marks)
Q5 - An isotope of atomic mass and symbol of element.	s 27 has 14 neutrons in the nucleus. What	is the atomic number, name (2 Marks)
Q6 - Write the designation for (a) n = 3, l = 1 (brbitals with following quantum numbers- b) $n = 5, I = 2$	(2 Marks)
Q7 - Who discovered neutrons?	>	
Q8 - Which element does not h	ave any neutron in it?	(1 Mark)
	· · · · · · · · · · · · · · · · · · ·	(1 Mark)
Q9 - Give two examples from e	everyday life where cathode ray tubes are u	used? (1 Mark)
		(2007)