Sessional Examination

FYUGP B.Sc. 1st Semester

(Chemistry-I)

Paper Code: CHE0100104

Full Marks: 30

Time: 1 Hour 30 Minute

All questions are compulsory

1.	write the postulates of Bohr's atomic model.	2
2.	Write the de Broglie's hypothesis equation and explain.	An
	electron is accelerated by applying a potential difference	of
	1000V. What is the de Broglie wavelength associated with	i it.

- 3. What is the physical significance of Ψ and Ψ^2 ? Write the conditions of acceptable wave function of Ψ 2+2=4
- 4. Explain the Radial distribution function. Calculate the radial node, angular node and total node of 3d-orbital. 2+3=5
- 5. Draw the Born-Haber Cycle for the formation of NaCl. 5
- 6. What are ionic compound? Write the general properties/characteristics of such compound? 1+4=5
- 7. What is Mesomeric Effect? Why is phenol acidic in nature.

2+3=5

2+2=4