

BSc.II year

1. **What is radius ratio?**
2. **Write Borb -Land exation?**
3. **Write any one application ofFAJAN's rule?**
4. **Limitation of Lowry -Brosted theory?**
5. **What is screening effect?**
6. **Defination of ionization potential?**
7. **Explain back- bonding.**
8. **Electronic configuration of Xe?**
9. **Explain Chemical twins.**
10. **What is the position of actinide element in the periodic table.**
11. **Draw structure of Borazine.**
12. **Write any two basiic properties of iodine.**
13. **Draw structure of pyro silicates.**
14. **Explain cubic close packed structure.**
15. **Explain AX5 type of Interhalogen Compounds.**

16. Write statement of Raoult's law of ideal solution.
17. What is Henry's law.
18. Definition of azeotropic mixtures.
19. Draw the graph of phenol-water system.
20. Statement and formula of Nernst distribution law.
21. Write any two applications of distribution law in the process of extraction.
22. Any two limitations of first law of thermodynamics.
23. Write expression of efficiency (η) of Carnot engine.
24. Define Entropy and Entropy change.
25. Explain unit of reaction rate.
26. Write Arrhenius equation.
27. Write any two failures of Collision theory.
28. What is Molarity.
29. What is electron Spin Angular Momentum.
30. What is Magnetic Susceptibility.