

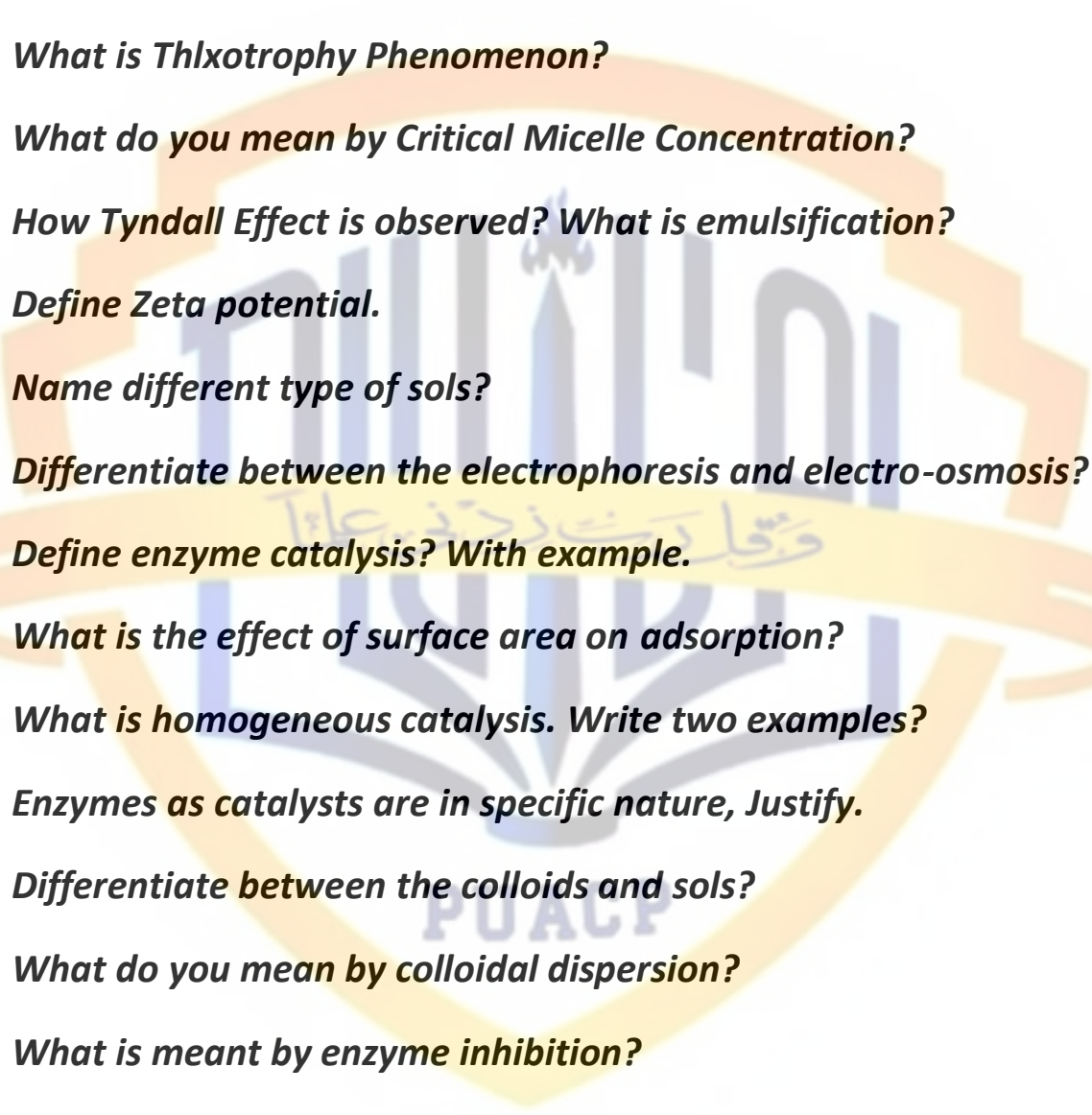
CHEM-403

Physical Chemistry (Sp. Theory-I)

Past Papers

Short Questions

- 1. How a catalyst affect the energy of activation?**
- 2. What is *catalytic poisoning*?**
- 3. What are promoters?**
- 4. Differ between the gel and emulsion?**
- 5. Describe a method for purifying colloidal solution?**
- 6. What is electrophoresis?**
- 7. What is the effect of surface area on adsorption?**
- 8. Define heterogeneous catalysis and give examples?**
- 9. Write any two postulates of Langmuir Adsorption Isotherm?**
- 10. Differ between physical and chemical adsorption?**
- 11. What is peptization?**
- 12. What is ultrafiltration?**
- 13. Give three properties of colloids?**
- 14. What is Electro-Osmosis?**
- 15. How coagulation of colloids takes place by persistent dialysis?**
- 16. What is Hardy-Schulze Rule?**

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- 17. What are surfactants? Give its classification.**
 - 18. What do you mean by adsorption isotherms?**
 - 19. Why true solution does not show Tyndall Effect?**
 - 20. What is Thixotropy Phenomenon?**
 - 21. What do you mean by Critical Micelle Concentration?**
 - 22. How Tyndall Effect is observed? What is emulsification?**
 - 23. Define Zeta potential.**
 - 24. Name different type of sols?**
 - 25. Differentiate between the electrophoresis and electro-osmosis?**
 - 26. Define enzyme catalysis? With example.**
 - 27. What is the effect of surface area on adsorption?**
 - 28. What is homogeneous catalysis. Write two examples?**
 - 29. Enzymes as catalysts are in specific nature, Justify.**
 - 30. Differentiate between the colloids and sols?**
 - 31. What do you mean by colloidal dispersion?**
 - 32. What is meant by enzyme inhibition?**
 - 33. Define Autocatalysis?**