

1. Explain classification of Lipids.
2. Explain Filler, Plasticizer and Anti-oxidants
3. Give only equations of dehydration reactions of amides and its Hoffman reaction.
4. Explain Wolff-Kishner and Clemmenson reduction reactions.
5. Explain and give equations of industrial manufacturing of Salicylic acid by Kolbe-Schmitt reaction
6. Explain steps of R & S nomenclature.
7. Show geometrical isomers in cis-trans and facial meridional results of metal ion Fe and Co bearing 6 co-ordination number.
8. Write points of tendency of transition metal ions to form complex compounds.
9. Give only equations of production of Chlorine and Iodine.
10. Derive formula of Langmuir Absorption Isotherm and express the equation at low and high pressure situations.
11. What is meant by Molal Elevation constant? Derive formula for Molal Elevation constant.
12. What is meant by Molal Depression constant? Derive formula for Molal Depression constant.
13. Write preparation of Vulcanised rubber. State its properties and uses.
14. Explain Condensation reaction of Aldehyde and Ketone compounds by reactions only.
15. Explain by giving chemical reaction for the intermediate obtained by reaction of Methyl magnesium iodide with Ethanal and Propanone which give alcohols on their hydrolysis.
16. Explain Reimer-Tiemann reaction.
17. Write short note on Disaccharides.
18. Explain : Carbon fibres and give their types and two uses.
19. Write a short note on mechanism of Missile formation. (Figures not required)
20. Explain : Metallic bond and also conduction of electricity in metal.