

- (iv) What is Viscosity Index of a lubricant ? Discuss its importance. (3×4=12)
4. (i) Discuss non anionic surfactants.
(ii) Differentiate between oils and fats.
(iii) Differentiate between soaps and detergents.
(iv) What are detergent builders ? (3×4=12)
5. Write short note on the following :
(i) Catalytic Cracking
(ii) CNG
(iii) Octane Number
(iv) LPG (3×4=12)
6. (i) Explain the cleansing action of soaps and detergents.
(ii) Discuss Rancidity as applied to fats.
(iii) Write a short note on production of water gas.
(iv) Give the preparation of isoprene and its uses. (3×4=12)
7. (i) Discuss carbonization of coal.
(ii) Write a note on production of vinyl acetate.
(iii) Describe the industrial production of propylene oxide. Give its uses.
(iv) Write a note on Artificial Sweetners. (3×4=12)
8. (i) What are the disadvantages of phosphate builders ? Name some alternatives for Phosphate builders.
(ii) Write a note on preservatives.
(iii) Write a note on food colours.
(iv) Give composition of crude petroleum. (3×4=12)