



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Write short answers to the following questions. (15x2=30)

- (i) Give reactions for the conversion of methane to acetylene.
- (ii) What are the major uses of carbon black?
- (iii) Write down the chemical reactions involved in manufacturing of viscose rayon.
- (iv) Describe neutralizing and dyeing in leather industry.
- (v) Write down the major and minor components of fats and oil.
- (vi) Define mercerization and briefly describe its importance in textile finishing
- (vii) What is meant by emulsion and gives its types?
- (viii) Chromium salts are undesirable in leather industry, comment
- (ix) What are important petrochemicals obtained from propene and acetylene.
- (x) Enlist the raw materials for Dacron, also give the reaction of its formation.
- (xi) Distinguish between primary petrochemical and intermediate petrochemicals. Give examples.
- (xii) Write the chemical equations of the production of nylon 66 and nylon 6.
- (xii) Name different processes used for the conversion of polymers to fibres.
- (xiv) Describe the reasons of fat spoilage.
- (xv) Differentiate between simple and mixed triglycerides with one example of each.

Write detailed answers to the following questions.

- Q No. 02** (a) Give brief description of 'CHROME TANNING' process in the manufacturing of leather (6)
- (b) What are the major pollutants of leather industry and how are these treated? (4)
- Q No. 03** (a) Discuss the refining of crude vegetable oils by alkali method. (5)
- (b) Write a concise note on the 'HYDROGENATION' of vegetable oils. (5)
- Q No. 04** (a) Describe the process of manufacturing of acetate rayon. (4)
- (b) Write down the chemistry of naphthalene and its importance as petrochemical. (6)