

Roll No

CM-602 (GS)

B.E. VI Semester Examination, June 2020

Grading System (GS)

Organic Process Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. What are alcohol derivatives? How these can be manufactured in an integrated agro based alcohol industry? Explain production of ethylene glycol giving its uses.
2. Discuss about the flow sheet of manufacture of sugar from sugarcane.
3. How is paper produced commercially? Discuss various engineering and environmental problems related with paper making.
4. Explain the Nitration reaction has huge industrial applications for manufacturing dyestuffs, pharmaceuticals, explosives, amines etc.
5. Explain with flow diagram the manufacture of pulp with black-liquor recovery and reuse.
6. What is Viscose fibre? Where does it is used?
OR
Compare natural and man-made fibres.
7. What is cellulose? Using neat flow chart explain the method of preparation. Also explain pertinent properties.
8. Answer any four of the following:
 - a) Write the fiber separation stage in pulping technologies.
 - b) Define the terminology used in sugar process: gay, Brix, Invert sugar, Masecuite.
 - c) How Phenol can be converted into Benzene?
 - d) What are Pesticides? How can Pesticides be used safely?
 - e) Define how Rayon, is a manufactured fiber composed of regenerated cellulose.
 - f) Give formula of Nylon-6-6?
