

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering - SEMESTER-VI • EXAMINATION – WINTER • 2014

Subject Code: 360505

Date: 04-12-2014

Subject Name: Pulp and Paper Technology

Time: 02:30 pm - 05:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- Q:1 (a) Define paper and write types of paper products with their uses. 07
(b) Explain requisites for cellulose raw materials . 07
- Q:2 (a) Discuss about various raw materials of paper. 07
(b) Differentiates two types of pulps. 07
OR
(b) Major Engineering problems of pulp industry. 07
- Q:3 (a) Explain krafpulping process with neat and clean figure. 07
(b) Explain R.A.G.pulping. 07
OR
- Q:3 (a) Define cellulose and write its properites. 07
(b) Which are the latest developments of paper industries. 07
- Q:4 (a) Mechanical and thermo-mechanical pulping. 07
(b) Preparation of chemical cellulose. 07
OR
- Q:4(a) Black liquor recovery process. 07
(b) Write properties of Dimethyl Sulfide and sulfoxide. 07
- Q:5(a) Explain Wet process for Paper Manufacture. 07
(b) Discuss about three pulping process. 07
OR
- Q5 (a) Method of production of Dimethyl Sulfide. 07
(b) Write a note on Enzymology for Lignin waste treatment. 07
