

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGG.- VIth SEMESTER-EXAMINATION – MAY/JUNE- 2012

Subject code: 360505

Date: 30/05/2012

Subject Name: Pulp & paper Technology

Time: 10:30 am – 01:00 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) Discuss about raw material for paper manufacture. 07
(b) Write the types of paper products and their application. 07
- Q:2(a) Explain wet process for manufacturing of paper with neat figure. 07
(b) Explain economics of paper industries. 07
OR
(b) Compare three types of pulps. 07
- Q:3(a) Explain major engineering problems of pulp industry. 07
(b) Explain sulphite pulping with figure. 07
OR
Q:3(a) Explain black liquor recovery process with neat figure. 07
(b) Write a note on R.A.G pulping. 07
- Q:4(a) Write about the properties of cellulose with its chemical structure. 07
(b) Discuss pollution problems and remedies of pulp and paper industries. 07
OR
Q:4(a) Write about the scope of pulp and paper industries in india. 07
(b) Discuss enzymology for lignin waste treatment. 07
- Q:5(a) Write the properties of various lignin chemicals. 07
(b) Explain manufacturing of Dimethyl sulfide with flow diagram. 07
OR
Q:5(a) write about the preparation of chemical cellulose. 07
(b) Explain kraft puping process with flow diagram. 07