Seat No.:	Enrolment No.
Seat No	Emoniem No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Subject Code: 162804 Date: 28-05-2014 **Subject Name: Technology of Printing - I** Time: 10:30 am - 01:00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** (a) Answer the following OBJECTIVE questions: 07 i. Dischargeability rating for illuminant colour should be . . ii. State the chemical class of aniline salt. iii. Guar gum is perfectly suitable thickener for reactive dyes. True/False. iv. Antidiazotates are associated with class of dyes. v. What is AQ paste used for? vi. Write the main difference between steamer and ager. vii. What is Leucotrope W? Explain the techno-chemical aspect of white discharge on direct ground. 07 **(b)** Differentiate between Discharge style of printing and resist style of printing in 0.2 07 detail. Enlist different ingredients of printing paste. Explain in depth on Oxidizing **(b) 07** agents and reducing agents. OR Enlist various faults occurring in roller printing machine with their remedies. **07** Enlist different methods for printing azoic colours by direct style. Describe any **Q.3** 14 two in detail. OR Discuss the potash-rongalite method for printing cotton fabric using vat dyes. **07** 0.3 **(b)** Elucidate techno-chemical criteria to print solubilized vat dye by direct style **07** using wet development method. Give detailed classification of thickeners. Discuss any one thickener in detail. **07** 0.4 (a) Write a note on Crepon style of printing. **07 (b)** Discuss in detail about Batik style of printing in detail. **Q.4** (a) **07** Describe in detail about Six colour roller printing machine with neat sketch. 07 **(b)** Mention "flash ageing" process in detail. **07 Q.5** (a) Write a note on antidiazotates. **07 (b)** OR Elucidate the technical aspects to print aniline black colour. **07 Q.5** (a) Describe in depth about resist on reactive ground with suitable examples. **07**
