

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.
2. 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?
- (b) Explain the techno-chemical aspect of white discharge on direct ground. **07**
- Q.2** (a) Differentiate between Discharge style of printing and resist style of printing in detail. **07**
- (b) Enlist different ingredients of printing paste. Explain in depth on Oxidizing agents and reducing agents. **07**
- OR**
- (b) Enlist various faults occurring in roller printing machine with their remedies. **07**
- Q.3** Enlist different methods for printing azoic colours by direct style. Describe any two in detail. **14**
- OR**
- Q.3** (a) Discuss the potash-rongalite method for printing cotton fabric using vat dyes. **07**
- (b) Elucidate techno-chemical criteria to print solubilized vat dye by direct style using wet development method. **07**
- Q.4** (a) Give detailed classification of thickeners. Discuss any one thickener in detail. **07**
- (b) Write a note on Crepon style of printing. **07**
- OR**
- Q.4** (a) Discuss in detail about Batik style of printing in detail. **07**
- (b) Describe in detail about Six colour roller printing machine with neat sketch. **07**
- Q.5** (a) Mention “flash ageing” process in detail. **07**
- (b) Write a note on antidiazotates. **07**
- OR**
- Q.5** (a) Elucidate the technical aspects to print aniline black colour. **07**
- (b) Describe in depth about resist on reactive ground with suitable examples. **07**
