

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2024

Subject Code:3142907

Date:01-07-2024

Subject Name: Textile Processing

Time:10:30 AM TO 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. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Draw process flow of textile wet processing. **03**
(b) What is desizing and why it is needed? **04**
(c) What is scouring? Which types of impurities are removed by the scouring process? How? **07**
- Q.2** (a) Explain the following terms: Singeing and Shearing. **03**
(b) Explain enzyme desizing with continuous process. **04**
(c) Describe gas singeing machine with precautions to be taken during singeing. **07**
- OR**
- (c) State and discuss hydrogen peroxide bleaching recipe and process Conditions. **07**
- Q.3** (a) Define term: Dyes and Pigment. **03**
(b) Explain the classification of coloring matter. **04**
(c) Explain construction and working of Roller printing with neat diagram. **07**
- OR**
- Q.3** (a) What are the ingredients of a printing paste? **03**
(b) Differentiate style and method of printing **04**
(c) Describe chainless padless mercerising machine with a neat sketch. **07**
- Q.4** (a) Classify dyes according to their applications. **03**
(b) Explain important factors and precautions in package dyeing. **04**
(c) Give principle, construction and working of jigger dyeing machine with neat sketch. **07**
- OR**
- Q.4** (a) Define terms: Surface tension and Wetting. **03**
(b) What is steaming? What actually happens during steaming? **04**
(c) Describe the process of scouring cotton fabrics using pressure kier method. **07**
- Q.5** (a) Give brief classification of textile finishing. **03**
(b) State the effects of the following finishes: Deluster and Peach. **04**
(c) Explain construction and working of Flatbed printing with neat diagram. **07**
- OR**
- Q.5** (a) Discuss in brief about Flame proof finish. **03**
(b) Differentiate between water proof and water repellent finish. **04**
(c) Enlist objects of Calendaring and explain embossing calendars with neat diagrams **07**
