

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014****Subject Code: 162805****Date: 26-05-2014****Subject Name: Technology of Finishing-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. **10**
- i. Complete this sentence “A good cloth always -----”.
  - ii. ----- fibre has high resiliency.
  - iii. A roasted starch is known as -----.
  - iv. Give reason: Fumaric acid is not suitable for antcrease finishing of cotton.
  - v. Define: Ignition.
  - vi. -----group on amino plasts cross linking agents is responsible for chlorine retention.
  - vii. State one example of reactive softener.
  - viii. What are soluble starches?
  - ix. Antipilling finish is generally employed to-----fiber.
  - x. What is function of French chalk in textiles finishing.
- (b) State different F.R. Theories. **04**
- Q.2** (a) Describe the inherent qualities of viscose rayon and synthetic fibres in context to finishing. **07**
- (b) What is difference between antcrease finishing and wash- n- wear finishing? Describe the chemistry with salient features of any four amino plasts based cross linking agents. **07**
- OR**
- (b) Describe various processes of wash-n-wear and D.P. finishing. **07**
- Q.3** (a) Write a short note on LOI. **04**
- (b) Describe various techno-chemical aspects of perchmentization. **10**
- OR**
- Q.3** (a) Give a critical review on formaldehyde free cross linking agents. **14**
- Q.4** (a) Explain in detail the chemistry and applications of anionic softeners **10**
- (b) Enumerate the ways and extents of flame propagation by different fibres. **04**
- OR**
- Q.4** Describe Trubenizing, Bonding and Laminating **14**
- Q.5** (a) Enlist various stiffening agents. Explain the chemistry, properties and application of any two stiffeners. **10**
- (b) Describe in brief “Antistatic finish” **04**
- OR**
- Q.5** Differentiate the terms “Water proof” and “Water repellent”. Enlist different water repelling agents and explain **any two** in detail. **14**

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