



Register Number:.....

**B.TECH DEGREE EXAMINATIONS: MAY 2015**

(Regulation 2009)

Fifth Semester

**TEXTILE TECHNOLOGY**

TTX 110: Textile Chemical Processing - II

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Sublimation transfer printing is mostly used for
  - a) Cotton
  - b) Wool
  - c) Viscose rayon
  - d) Polyester
2. ----- is used as an discharging agent in sulphur discharge printing on direct dye ground of cotton fabric.
  - a) Sodium hydroxide
  - b) Potassium carbonate
  - c) Aluminium Sulphate
  - d) Rongalite C
3. Defects in screen printing due to improper preparation of print paste are referred to as-----.
  - a) Color out
  - b) Glue streaks
  - c) Pattern out of fit
  - d) Color spread
4. Which one of the following machine is recently developed in printing?
  - a) Screen
  - b) Rotary
  - c) Laser
  - d) Inkjet
5. The crease resistant finish is
  - a) Welling of cotton fibre
  - b) Removal of OH group in the cellulose molecule
  - c) Relaxation of strains by fibres and yarns
  - d) Loss of tensile strength
6. For controlled release antimicrobials ----- is applied on the textile materials.
  - a) Boric acid
  - b) Methacrylic acid
  - c) Tributyl tin oxide
  - d) Glyoxal



22. a) Explain in detail the working principle of thermal transfer printing method.

**(OR)**

b) Discuss the working principle of continuous and batch type of steamer.

23. a) Explain with neat sketch the working principles of anti-shrinking finishing methods.

**(OR)**

b) Discuss in detail about the crease proof finish given to cotton materials using dimethylol dihydroxy ethylene urea (DMDHEU).

24. a) Discuss in detail about the theory and mechanism of flame retardant finishing of cotton and polyester materials.

**(OR)**

b) i) Explain the concept of soil release finishes on textile materials? (7)

ii) Explain the mechanism of durable and non-durable antistatic finishing. (7)

25. a) Discuss in detail about the various process control measures to be implemented in the preparatory process of cotton materials.

**(OR)**

b) Enlighten the effect of auxiliary chemicals and process parameters in chemical processing of cotton materials.

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