THE TEXTILE ASSOCIATION (INDIA)
A.T.A. (REVISED) EXAMINATION – 2015
PART III-PAPER-A3.OC

WET PROCESSING PART II-PRINTING & FINISHING

Date: 27.12.2015  Marks: 100  Time: 10 am to 1 pm

Instructions: 1. Attempt SIX questions out of which Q1 is compulsory
2. Answer each next question on new page
3. Figure to the right indicate full marks
4. Illustrate your answers with sketches and flow chart wherever necessary
5. Use of non-programmable electronic pocket calculator permissible
6. Mobile and any other communication devices are not allowed in exam hall.
7. Assume suitable data wherever necessary

Q1  Answer any five
   a. What are the ingredients present in printing paste?
   b. Differentiate between dyes and pigments.
   c. What is used of thickener in printing? Explain types of thickener.
   d. What is hydrophilic and hydrophobic soft finish?
   e. What are objective of compacting?
   f. Classify finishing.

Q2  a. What is calendaring finish? Draw a diagram of 7 bowl calendaring machine.
   b. What is printing? Differentiate between dyeing and printing.

Q3  a. Explain softening? What are advantages of anionic softener? How we identify ionic nature of softener?
   b. What are different types of natural gums used in printing? Explain role of viscosity in printing paste.

Q4  a. What is wrinkle free finishing? Explain disadvantages of formaldehyde release in textile processing.
   b. What is screen printing? And which fabrics are used for screen? How screen is prepare

Q5  Write short note on
   i) Resist Style of printing  ii) Types of printing  iii) Oil repellent finishing on textile.
   iv) Decatising and Milling.

Q6  a. What is pigment? Explain process parameter and sequence of printing of cotton with pigment
   b. What are different repellent finishes used in textile processing?
   Explain Principle of water repellent finishes on textile goods and write its application.

Q7  a. What is discharge style of printing and how it differs from resist style of printing?
b. Differentiate between rotary and flat bed screen printing machine? 04

Q8 a. Explain flame retardant finishes on textile and its uses. 08
   b. Write short note
      1) Steps involved in printing process 2) Types of softener.

   08
   evaluate performance of stiff finish?