THE TEXTILE ASSOCIATION (INDIA)
A.T.A. (REVISED) EXAMINATION – 2016
PART III (COMPULSORY SUBJECTS)
WET PROCESSING II PRINTING & FINISHING

Date: 26.12.2015 Marks: 100 Time: 10.00am to 1.00 pm

INSTRUCTIONS:
1. Attempt any six questions out of which Q.1 is compulsory
2. Answer each next main question on new page
3. Figures to right indicate full marks
4. Illustrate your answers with sketches and flowcharts wherever necessary
5. Use of non-programmable electronic pocket calculator permissible
6. Mobile or any other communicable device is not permitted in the exam hall
7. Assume suitable data wherever necessary

Q. 1 Attempt any five 20
   a. What is printing? How does it differ from dyeing?
   b. What are methods of printing?
   c. Explain importance of thickener in printing paste
   d. What is hydrophilic and hydrophobic soft finish?
   e. What is resist style of printing?
   f. What is use of oil repellent finishing?

Q. 2 a) What is calendering finish? Draw a diagram of 7 bowl calendering machine. 08
    b) Enlist and explain uses of ingredients of printing paste 08

Q. 3 a) Classify softeners? What are advantages of silicone softener? How do you identify ionic nature of softener? 08
    b) What is screen printing? And which fabrics are used for screen? How screen is prepared? 08

Q. 4 a) What is Water repellent finishing? Explain disadvantages of long chain fluorocarbon in water repellency 08
    b) What are different fixation processes used in printing? Also explain their importance 08

Q. 5 Write short note on 16
   1) Discharge Style of printing 2) Printing of cotton fabric with direct dye
   3) Flame retardant Finish 4) Stiff finish

Q. 6 a) What is pigment? Explain process parameter and sequence of printing of cotton with pigment. 08
    b) What is resin finish? Explain testing of resin finished fabric 08

Q. 7 a) What are different chemicals used in stiff finish? 04
    b) Differentiate between rotary and flat bed screen printing machine? 04
    c) Explain how cotton polyester blend is printed? 08

Q. 8 a) Explain flame retardant finishes on textile and its uses. 08
    b) Write short note 08
       1) Style of Printing 2) Decatizing and Milling.

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