THE TEXTILE ASSOCIATION (INDIA)
A.T.A. PART-III NEW 3 YEARS EXAMINATION – 2014
PAPER-A3.0C
WET PROCESSING-II PRINTING AND FINISHING
Date: 27.12.2014 Marks -100 Time. 10.00 a.m. to 01.00 p.m.
Instructions:
1. Attempt any six questions out of which Q.1 is compulsory.
2. Figures to the right hand side indicates full marks
3. Illustrate your answer with suitable sketches and flow charts wherever necessary.
4. Assume suitable data wherever necessary

Q. 1 Attempt any five
   a. What is difference between dyeing and printing?
   b. What is viscosity? Explain importance of viscosity of thickener paste in printing.
   c. What are steps involve in printing process?
   d. What are different types of softener?
   e. What are objective of calendaring finish?
   f. Classify finishing.

Q. 2 a) What is calendaring finish? Draw a diagram of 7 bowl calendaring machine.
   (08)
 b) What is printing? Explain different types of printing?
   (08)

Q. 3 a) Explain softening? What are advantages and disadvantages of cationic softener?
   (08)
   b) What are different types of thickeners used in printing? Explain why starch is not used in reactive printing
   (08)

Q. 4 a) What is Water and oil repellent finishing? Explain its principle.
   (08)
 b) What is screen printing? And which fabrics are used for screen making? How screen is prepared?
   (08)

Q. 5 Write short note on
   1) Discharge Style of printing
   2) New development in printing.
   3) Wrinkle free finishing on textile.
   4) Decetising and Milling.
   (16)

Q. 6 a) What is difference between dyes and pigments? Explain process parameter and sequence of printing of cotton with pigment.
   (08)
 b) Explain antimicrobial finish? And write its application.
   (08)

Q. 7 a) What is resist style of printing and how it differs from discharge style of printing?
   (08)
 b) Explain disadvantages of formaldehyde release in textile processing?
   (04)
 c) What is flame retardant finish? Explain durable and non durable flame retardants used in textile industry?
   (08)

Q. 8 a) Explain moisture management finish on polyester fabric
   (08)
 b) Write short note
   1) Steam used in printing process 2) Heat setting of polyester fabric and its importance
   (08)