THE TEXTILE ASSOCIATION (INDIA)
A.T.A. III (REVISED) EXAMINATION – 2017
PAPER A3.5
WET PROCESSING – II PRINTING AND FINISHING

Date: 26/12/2017 Marks: 100 Time: 10.00 am to 01.00 pm

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

Q.1 Attempt any Five

1. Write a note on the different methods of fixation of prints.
2. What is Printing? How is it different from dyeing?
3. Write a note on the classification of finishes?
4. Compare roller printing with rotary screen printing machine.
5. Differentiate between chemical and mechanical finishes.
6. Explain the term oil repellents finishing of textiles.
7. Write a note on the stiffening of textiles.
8. With a neat labeled diagram, explain the working principle of shearing and cropping machine.

Q.2

1. Write a detailed note on the characteristics of thickeners used in textile printing.
2. With a neat labeled diagram, explain the working and principle involved in calendaring machine. Also explain the various effects achieved on it.

Q.3

1. Draw a neat labeled diagram of a rotary screen printing machine and write its working principle as well as two advantages and two limitations.
2. With a neat labeled diagram, explain the dequantizing and milling processes.

Q.4

1. Enlist and explain the different styles of printing?
2. Write down the printing recipe and procedure in printing of cotton fabric using reactive dyes by resist style of printing.
Q.5
1. With a neat labeled diagram, explain the working principle of a print washer. Also write the importance of a washer in printing department.
2. Explain the term Flame retardants and flame proofing of textiles. Give the recipe and the conditions for application of each type.

Q.6
1. Write down the printing recipe and procedure in printing of polyester cotton blended fabric using disperse and reactive dyes by direct style of printing.
2. Write a detailed classification of softeners and write one advantage and one limitation each of all softeners.

Q.7
1. Write a detailed note on transfer printing? Enlist any four advantages and four limitations of the same.
2. What are resins? Give the classification of crease resistant finishing chemicals.

Q.8
1. What is digital printing? Write the principle involved in the same and also write its pros and cons.
2. Enlist and write the functions of different ingredients used in textile printing.