THE TEXTILE ASSOCIATION (INDIA)
A.T.A. PART III EXAMINATION 2019
PAPER – A3.OC
WET PROCESSING IIPRINTING AND FINISHING

Date: 24.12.2019       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 printing.
2. What is Printing? How is it different from dyeing?
3. Write a note on the classification of finishes?
4. Compare flatbed screen printing with rotary screen printing machine.
5. Differentiate between softfinishes and stiff finishes.
6. Explain the waterproof finishing of textiles. Give two applications.
7. Write a note on the softening of textiles.
8. With a neat labeled diagram, explain the working principle of padding mangle machine.

Q.2

1. Elaborate the rheological behavior of thickeners used in textile printing.
2. With a neat labeled diagram, explain the working and principle involved in calendering machine. Also explain the various effects achieved on it.

Q.3

1. Draw a neat labeled diagram of a flatbed screen printing machine and write its working principle as well as two advantages and two limitations.
2. With a neat labeled diagram, explain the decatising and milling processes.
Q.4
1  Enlist and explain the different styles of printing?
2  Write down the print paste 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 loop ager. Also write the importance of a ager 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 vat 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 note on the digital printing of textiles? Enlist any four advantages and four limitations of the same.
2  What are softeners? Give the detailed classification of softeners and its function in the finishing of textiles.

Q.8
1  Explain the principle of shearing and cropping of textiles with the help of a neat labeled diagram.
2  Enlist and write the functions of different ingredients used in textile printing.