THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. EXAMINATION – 2018
SECTION – D PAPER – D.1
PRE-TREATMENT AND BLEACHING

Date: 22/12/2018                  MARKS: 100                  Time: 02.00 pm to 05.00 pm

Instructions:
1. Attempt any Six questions out of which Question 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 20 M
1. Write the objectives of Scouring.
2. What is Decatizing? Give its significance.
3. Explain the importance of singeing from dyer point of view?
4. What are the different methods of Degumming Silk. Explain any one method.
6. Enlist any two advantages and limitations of NaOCl bleaching.
7. Draw a neat labeled diagram of Shearing machine.
8. What are the objectives of Desizing?

Q.2
1. With a neat labeled diagram, explain the continuous scouring of cotton in rope form. 08 M
2. Enlist and explain the quality control parameters for cotton after scouring. 08 M

Q.3
1. With a neat labeled diagram, write the working principle and features of a pad-chainless mercerizing machine. 08 M
2. Explain the modifications required for scouring of knitted cotton in comparison to woven cotton fabrics. 08 M

Q.4
1. Explain in detail with the help of neat diagram, the Crabbing process carried out on wool. Write the conditions and the process details. 08 M
2. With a neat labeled diagram, describe the working principle and procedure of a gas singeing machine. 08 M
Q.5
1. Explain the process of Continuous Bleaching of cotton in open width form with the help of a neat labeled diagram. 08 M
2. With the help of a neat labeled diagram explain, wool scouring procedure. 08 M

Q.6
1. Classify the methods of Desizing? Write the procedure and conditions of the enzymatic method. Compare with acid desizing method. 08 M
2. Write a note on the bleaching of cotton with sodium hypochlorite. Give any two advantages and limitations Compare it with hydrogen peroxide bleaching. 08 M

Q.7
1. Write the mechanism of scouring of cotton. Write the detailed method of scouring jute fibres. 08 M
2. Explain the procedure of hydrogen peroxide bleaching of cotton. Enlist the chemicals used in peroxide bleaching and write their functions. 08 M

Q.8
1. Write a detailed note on eco-friendly preparatory processes available for processing of cotton. 08 M
2. With a neat labeled diagram, explain the scouring of cotton by Kier boiling method. Write its advantages and limitations. 08 M