THE TEXTILE ASSOCIATION (INDIA)
GMTEXAMINATION – 2019
SECTION – D PAPER – D.5
PROCESS & QUALITY MANAGEMENT IN WET PROCESSING

Date: 25.12.2019
MARKS: 100
Time: 2.00 pm to 5.00 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

Q1  a  Discuss the process and quality control steps involved in dyeing of cotton yarn using cabinet dyeing machine.  10
     b  State the differences between Quality Control and Process Control Techniques in Textile wet processing.  10

Q2  a  Describe the estimation of ash content in wool fibers.  08
     b  Discuss the method of finding color fastness to perspiration.  08

Q3  a  Describe the method of determining the flammability of Tasar silk fabric.  08
     b  Write a note on ‘Dimensional stability of cotton fabric’  08

Q4  a  Write a note on ‘Barium Activity and its estimation’.  08
     b  Describe the determination of acid groups using methylene blue absorption method.  08

Q5  a  What is water repellency? Describe the AATCC method of estimation of water repellency of textile fabric.  08
     b  Discuss the light fastness properties of dyed cotton textiles. Write a note on ‘AATCC method of assessing light fastness of apparel fabrics’  08

Q6  a  Write a note on estimation of Spin finish in polyester fibers.  08
     b  Write a note on ‘Implementation of QMS ISO 9001 in a wet processing unit’.  08

Q7  Discuss the Restricted Chemical List (RSL) and Restriction of use of hazardous chemicals (ROHS) with reference to Textile Wet processing.  16

Q8  a  Write a note on ‘Implementation of EMS ISO 14001 in a wet processing unit’  08
     b  Discuss the methods of analysis of Azo dyes and pesticides in cotton fabrics in relation to different analytical instruments.