THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. EXAMINATION-2016
SECTION: D PAPER - POD.2

EFFLUENT TREATMENT & ECOFRIENDLY PROCESSING

Date: 29.12.2016  Marks: 100  Time: 2.00 pm to 5.00 pm

Instructions:
1. Attempt SIX questions out of which Q1 is Compulsory
2. Answer each next question on new page
3. Figures to the right indicate full marks
4. Illustrate your answers with sketches and flow chart wherever necessary
5. Use of nonprogrammable electronic pocket calculator permissible
6. Mobile and any other communication devices are not allowed in the exam hall
7. Assume suitable data wherever necessary

Q1  Give an account of total dissolved solids in the effluent with reference to its mending.  20
Q2  Discuss the quality of water required for silk reeling and chemical processing of textiles.  16
Q3  a  Describe the role of sequestering agents in wet processing of textiles.  08
     b  Classify the types of hard water in relation to its properties and briefly explain how moderately hard water can be treated to make it suitable for textile wet processing.  08
Q4  a  Discuss the water quality required in low and medium pressure boiler.  08
     b  Describe coagulation, flocculation and filtration methods.  08
Q5  Give an account of recycling of water in a textile wet processing factory.  16
Q6  Give an account of effluent discharge from soap and detergent industry with reference to the toxicity and carcinogenicity.  16
Q7  Describe different sources of water and their treatment strategies to make them suitable for textile wet processing.  16
Q8  Discuss primary, secondary, tertiary and quaternary treatment of effluent.  16