THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. EXAMINATION 2017
SECTION: E PAPER-E-2
ENERGY, ENVIRONMENT & EFFICIENCY IN TEXTILE

Date: 27.12.2017            Marks: 100            Time: 10am to 1.00 pm

Instructions:
1. Attempt six questions 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 charts wherever necessary
5. Use of nonprogrammable electronic pocket calculators permitted
6. Mobile and any other communication devices are not allowed in the exam, hall.
7. Assume suitable data wherever necessary

Q1
a. Write a note on 'biodiversity' 10
   b. Discuss 'classification of pollution and their relation to textile industry.' 10

Q2
a. Describe an effluent treatment plant in viscose manufacturing unit. 08
   b. Write a short note on effluent discharge standards for inland surface water/public sewer. 08

Q3
a. Describe the boiler water requirements for boiler for low and medium pressure boilers. 08
   b. Write a note on 'water softening of bore well yielding very hard water' 08

Q4
a. Describe different quality parameters of water with short note on evaluation methods 16

Q5
a. Discuss various methods of waste water treatment 08
   b. Describe waste water treatment plant for textile mill with a model diagram. 08

Q6
a. Write a note on air pollution" 08
   b. Discuss noise pollution and its effect on the environment 08

Q7
a. Classify energy sources. Write a note on 'clean energy' 08
   b. Discuss the importance of 'nonconventional energy' 08

Q8
a. Describe 'energy conservation' in textile industry 08
   b. Write a note on 'energy audit' 08