THE TEXTILE ASSOCIATION (INDIA)
G.M.T.A. (REVISED) EXAMINATION – 2015
SECTION – D PAPER POD-3

EFFLUENT TREATMENT & ECOFRIENDLY PROCESSING

Date: 30.12.2015  Marks: 100  Time: 2 pm to 5 pm

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

Q1  Give an account of effluent discharge from soaps and detergent industry with reference to toxic and carcinogenic substances.  

Q2  Describe different sources of water and their treatment strategies for making them suitable for textile wet processing.

Q3  Discuss the quality requirements of water for silk reeling and textile wet processing.

Q4  What is recycling of water? Discuss different levels of waste water treatment to make the waste water suitable for reuse.

Q5  Give an account of environmental impact assessment (EMA) with special reference to important environmental and pollution control norms.

Q6  
   a. Discuss the role of sequestering agents in wet processing.
   b. Write a note on water softening of moderate hard water.

Q7  
   a. What is the requirement of quality of water for low and medium pressure boiler?
   b. Describe coagulation, flocculation, filtration methods.

Q8  
   a. Discuss effluent treatment plant with regard to screening, sedimentation, equalization, neutralization and coagulation.
   b. Write a note on total dissolved solids in a effluent. With regard to its mending in effluent treatment plant.

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