THE TEXTILE ASSOCIATION (INDIA)
GMTA EXAMINATION – 2018
SECTION – D PAPER – POD.2
EFFLENT TREATMENT & ECOFRIENDLY PROCESSING

Date: 28.12.2018          MARKS: 100          Time: 02.00 pm to 05.00 pm

Directions:
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 Primary and secondary effluent treatment processes in textile processing industry 10
    b Describe the central pollution control norms for textile processing industry in India 10

Q2 a Write a note on ‘water quality for silk reeling’. 08
    b Discuss the role of sequestering agents in the wet processing of cotton textiles 08

Q3 a Classify different types of water on the basis of their source of supply and discuss the 08
    probable inherent impurities in them.
    b Discuss the requirement of quality water required for boiler operating at low and 08
      high pressure.

Q4 a Discuss the coagulation, flocculation and reverse osmosis process in waste water 08
    treatment
    b Write a note on ‘nanofiltration’ 08

Q5 a Discuss total dissolved solids (TDS) in effluent in relation to pollution control norms. 08
    b Describe different types of flocculents used in effluent treatment. 08

Q6 Discuss water Recycling in textile wet processing industry. 16

Q7 Give an account of effluent discharge from soap and detergent industries. Write a note 16
    on hazardous substances in the effluent from global perspectives of textiles.

Q8 Write a detailed note on ‘Effluent Treatment with reference to Primary, secondary, 16
    Tertiary and quaternary treatment processes and recycling of the treated water’.

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