THE TEXTILE ASSOCIATION (INDIA)
GMAEXAMINATION – 2019
SECTION – EPAPER – E.2
ENERGY, ENVIRONMENT & EFFICIENCY IN TEXTILE

Date: 25.12.2019          MARKS: 100          Time: 10.00 am to 1.00pm

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

Q1a Write a note on impact of urbanization on the environment. 10
b Describe environmental pollution and its classification.  10

Q2a Discuss the water quality requirement of wool processing 08
b State the norms for industrial water quality. 08

Q3a Write a note on water quality for high pressure boiler. 08
b Describe Flocculation and filtration methods in waste water treatment. 08

Q4a Discuss evaluation of BOD and COD in the effluent. 08
b Define primary and secondary treatment of effluent. Comment on the output quality of water. 08

Q5a Discuss the air pollution in relation to textile manufacture. 08
b What are the industrial norms for noise? Comment on the same with respect to a composite textile mill. 08

Q6a Describe different sources of energy employed in the manufacture. 08
b Write a note on nonconventional energy in textile manufacture. 08

Q7a Give an account of energy conservation in wet processing of cotton textiles. 08
b What is thermal insulation? Comment on its relevance to energy saving. 08

Q8a Write a note on ‘Reverse Osmosis’ in water treatment’. 08
b Describe method for determination of alkalinity of water by titrimetric technique. 08

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