THE TEXTILE ASSOCIATION (INDIA)
GMTAEXAMINATION – 2020
SECTION – EPAPER – E.2
ENERGY, ENVIRONMENT & EFFICIENCY IN TEXTILE

Date: 28.12.2020
MARKS: 100
Time: 10.00 am to 1.00 pm

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

Q1
a. Write a note on biodiversity. 10
b. Discuss environmental pollution and its classification. 10

Q2
a. Discuss the waste water quality generated in viscose fibre manufacturing 08
b. State the norms for industrial water quality for textile processing. 08

Q3
a. Write a note on water quality for high pressure boiler. 08
b. Describe Flocculation and filtration methods in waste water treatment. 08

Q4
a. Discuss evaluation of TDS and COD in the effluent. 08
b. Define primary and secondary treatment of effluent. Comment on the output quality of water. 08

Q5
a. 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

Q6
a. Describe different sources of energy employed in the manufacture of textiles. 08
b. Write a note on Use of nonconventional energy in textile manufacture. 08

Q7
a. Give an account of energy conservation in wet processing of woollen textiles. 08
b. What is thermal insulation? Comment on its relevance to energy saving. 08

Q8
a. Write a note on ‘Trickling filtration Activated sludge process in water treatment’. 08
b. Describe method for determination of alkalinity of water by titrimetric technique. 08

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