

**THE TEXTILE ASSOCIATION (INDIA)**  
**GMTA EXAMINATION – 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

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<b>Q1</b>	a. Write a note on biodiversity.	<b>10</b>
	b. Discuss environmental pollution and its classification.	<b>10</b>
<b>Q2</b>	a. Discuss the waste water quality generated in viscose fibre manufacturing	<b>08</b>
	b. State the norms for industrial water quality for textile processing.	<b>08</b>
<b>Q3</b>	a. Write a note on water quality for high pressure boiler.	<b>08</b>
	b. Describe Flocculation and filtration methods in waste water treatment.	<b>08</b>
<b>Q4</b>	a. Discuss evaluation of TDS and COD in the effluent.	<b>08</b>
	b. Define primary and secondary treatment of effluent. Comment on the output quality of water.	<b>08</b>
<b>Q.5</b>	a. Discuss the air pollution in relation to textile manufacture.	<b>08</b>
	b. What are the industrial norms for noise? Comment on the same with respect to a composite textile mill.	<b>08</b>
<b>Q.6</b>	a. Describe different sources of energy employed in the manufacture of textiles.	<b>08</b>
	b. Write a note on Use of nonconventional energy in textile manufacture.	<b>08</b>
<b>Q.7</b>	a. Give an account of energy conservation in wet processing of woollen textiles.	<b>08</b>
	b. What is thermal insulation? Comment on its relevance to energy saving.	<b>08</b>
<b>Q.8</b>	a. Write a note on 'Trickling filtration Activated sludge process in water treatment'.	<b>08</b>
	b. Describe method for determination of alkalinity of water by titrimetric technique.	<b>08</b>

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