

THE TEXTILE ASSOCIATION (INDIA)
GMTA EXAMINATION – 2020
SECTION – D PAPER – D.5
MANMADE FIBRE TECHNOLOGY

Date: 28.12.2020

MARKS: 100

Time: 2.00 Pm to 5.00 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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Q1	a	Write a note on classification of fibres	10
	b	Differentiate between silk and wool on the basis of their physical, chemical and morphological properties.	10
Q2	a	Discuss the polycondensation process with reference to polyester.	08
	b	Describe addition polymerization with special reference to polyethylene manufacture.	08
Q3	a	Write a note on use of aramid fibres.	08
	b	Discuss the application of Teflon.	08
Q4	a	Describe the melt spinning process of manufacture of polyester.	08
	b	Write a note on Partially oriented yarn (POY) of polyester	08
Q5		Differentiate Dry spinning and Wet spinning. State merits and demerits.	16
Q6		Discuss wet spinning process of manufacture of viscose fibre.	16
Q7		Write a note on i) PVA, ii) PVC, iii) Acrylic and iv) Modacrylic fibres	16
Q8		Write a note on i) micro-denier polyester fibre ii) Quality issues in production of Nylon fibres	16
