

GATE 2026 TF Question Paper

Time Allowed :3 Hour	Maximum Marks :100	Total Questions :65
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General Instructions

Read the following instructions very carefully and strictly follow them:

1. This question paper is divided into three sections:
 - **General Aptitude (GA):** 10 questions (5 questions $\times$ 1 mark + 5 questions $\times$ 2 marks) for a total of 15 marks.
 - **Engineering Mathematics:** This section comprises of total 15 marks.
 - **Core Textile Engineering/Fibre science:** This section comprises of total 70 marks.
2. The total number of questions is **65**, carrying a maximum of **100 marks**.
3. The duration of the exam is **3 hours**.
4. Marking scheme:
 - For 1-mark MCQs, $\frac{1}{3}$ mark will be deducted for every incorrect response.
 - For 2-mark MCQs, $\frac{2}{3}$ mark will be deducted for every incorrect response.
 - No negative marking for numerical answer type (NAT) questions.
 - No marks will be awarded for unanswered questions.
5. Ensure you attempt questions only from the optional section (Part B1 or Part B2) you have selected.
6. Follow the instructions provided during the exam for submitting your answers.

1. The twist per inch (TPI) of a yarn primarily affects its:

- (A) Fineness
- (B) Strength
- (C) Length
- (D) Moisture regain

2. Which fibre has the highest moisture regain under standard atmospheric conditions?

- (A) Cotton
- (B) Wool

- (C) Polyester
 - (D) Nylon
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3. In plain weave fabric, the repeat size is:

- (A) 1 x 1
 - (B) 2 x 2
 - (C) 3 x 3
 - (D) 4 x 4
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4. The strength of a yarn is commonly expressed in terms of:

- (A) Tenacity
 - (B) Elongation
 - (C) Evenness
 - (D) Crimp
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5. The main purpose of scouring in cotton processing is to remove:

- (A) Natural coloring matter
 - (B) Waxes and impurities
 - (C) Lignin
 - (D) Synthetic finishes
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6. Which spinning system produces yarn directly from sliver without roving?

- (A) Ring spinning
- (B) Rotor spinning
- (C) Mule spinning
- (D) Cap spinning

7. Polyester fibre is manufactured by the process of:

- (A) Wet spinning
 - (B) Dry spinning
 - (C) Melt spinning
 - (D) Gel spinning
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