

GATE 2026 TF Question Paper with Solutions

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

Please read the following instructions carefully:

- 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.
 - Environmental Science and Engineering + Engineering Mathematics:**
 - Part A (Mandatory):** 36 questions (1 questions \times 1 mark + 19 questions \times 2 marks) for a total of 55 marks.
 - Part B (Section 1):** Candidates can choose either Part B1 (Surveying and Mapping) or Part B2 (Section 2). Each part contains 16 questions (8 questions \times 1 mark + 11 questions \times 2 marks) for a total of 30 marks.
- The total number of questions is **65**, carrying a maximum of **100 marks**.
- The duration of the exam is **3 hours**.
- 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.
- Ensure you attempt questions only from the optional section (Part B1 or Part B2) you have selected.
- 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) 1×1
 - (B) 2×2
 - (C) 3×3
 - (D) 4×4
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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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