

# GATE 2026 ES 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:

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.
  - **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.
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. Which one of the following gases is primarily responsible for the formation of photochemical smog?

- (A) Carbon monoxide
- (B) Sulphur dioxide
- (C) Nitrogen oxides
- (D) Methane

**2. BOD test is commonly carried out at:**

- (A) 20°C for 3 days
  - (B) 25°C for 3 days
  - (C) 20°C for 5 days
  - (D) 25°C for 5 days
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**3. Which air pollutant is mainly responsible for acid rain?**

- (A) CO and CO<sub>2</sub>
  - (B) NO<sub>2</sub> and SO<sub>2</sub>
  - (C) O<sub>3</sub> and PAN
  - (D) NH<sub>3</sub> and CH<sub>4</sub>
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**4. The most suitable method for disposal of municipal solid waste in large cities is:**

- (A) Open dumping
  - (B) Incineration
  - (C) Sanitary landfill
  - (D) Composting
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**5. The microorganism mainly responsible for nitrification in soil is:**

- (A) Nitrosomonas and Nitrobacter
  - (B) Azotobacter and Rhizobium
  - (C) Pseudomonas and Bacillus
  - (D) Clostridium and Thiobacillus
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**6. The unit used to measure sound intensity level is:**

- (A) Hertz
- (B) Decibel

- (C) Pascal
- (D) Joule

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**7. Which of the following is the first step in Environmental Impact Assessment (EIA)?**

- (A) Impact evaluation
  - (B) Public hearing
  - (C) Screening
  - (D) Mitigation
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