

GATE 2026 AG 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. The permanent wilting point of soil corresponds approximately to which soil moisture tension?

(A) 0.33 bar
(B) 1 bar
(C) 10 bars
(D) 15 bars

2. Which one of the following crops is most sensitive to photoperiod?

- (A) Wheat
- (B) Rice
- (C) Maize
- (D) Barley

3. In Mendelian inheritance, the phenotypic ratio of a dihybrid cross is:

- (A) 1 : 2 : 1
- (B) 3 : 1
- (C) 9 : 3 : 3 : 1
- (D) 15 : 1

4. The duty of water is defined as:

- (A) Volume of water applied per unit area
- (B) Area irrigated by unit discharge flowing continuously during crop period
- (C) Depth of water applied to the field
- (D) Rate of evapotranspiration

5. Which nutrient is most commonly deficient in Indian soils?

- (A) Nitrogen
- (B) Phosphorus
- (C) Potassium
- (D) Calcium

6. The efficiency of irrigation system is maximum in:

- (A) Surface irrigation
- (B) Sprinkler irrigation

- (C) Drip irrigation
- (D) Furrow irrigation

7. Which plant hormone is mainly responsible for apical dominance?

- (A) Cytokinin
- (B) Gibberellin
- (C) Abscisic acid
- (D) Auxin
