

CUET PG 2026 Botany Question Paper (Memory Based)

Time Allowed :1 Hours 30 min	Maximum Marks :300	Total Questions :75
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General Instructions

1. The exam lasts 90 minutes (1 hour 30 minutes).
2. There are 75 Multiple Choice Questions (MCQs) to be answered.
3. +4 marks for every correct answer. -1 mark (negative marking) for every incorrect answer. 0 marks for unanswered or un-attempted questions.
4. For any discrepancy in questions, the English version is considered final (except for language-specific papers).
5. Click one of the four options to choose an answer.
6. You must click "Save & Next" to confirm your response. Only saved answers are considered for evaluation.
7. Use "Mark for Review & Next" to flag a question for later. You can unselect or change your answer using the "Clear Response" button.
8. All calculations must be done on the Rough Sheets provided at the centre. These must be returned to the invigilator after the exam.

1. Which of the following is known as the "resurrection plant" among Pteridophytes?

- (A) Marsilea
- (B) Selaginella
- (C) Equisetum
- (D) Pteris

2. In the C₄ pathway, which enzyme is responsible for the primary carboxylation in mesophyll cells?

- (A) RuBisCO
- (B) PEP carboxylase
- (C) ATP synthase
- (D) NADP reductase

3. Which plant hormone is primarily responsible for "triple response" in seedlings?

- (A) Auxin
- (B) Gibberellin

- (C) Ethylene
 - (D) Cytokinin
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4. What is the characteristic genetic ratio of a dihybrid cross involving dominant epistasis?

- (A) 9:3:3:1
 - (B) 12:3:1
 - (C) 9:7
 - (D) 15:1
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5. The "Kranz anatomy" is a distinctive feature of the leaves of which group of plants?

- (A) C₃ plants
 - (B) C₄ plants
 - (C) CAM plants
 - (D) Bryophytes
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6. Which fungus is commonly used in the commercial production of citric acid?

- (A) Penicillium
 - (B) Aspergillus niger
 - (C) Saccharomyces cerevisiae
 - (D) Rhizopus
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7. In the life cycle of Puccinia graminis, which spores are produced on the Barberry leaf?

- (A) Uredospores
 - (B) Teliospores
 - (C) Aeciospores
 - (D) Basidiospores
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8. What is the ploidy level of the endosperm in a typical gymnosperm like Pinus?

- (A) Haploid (n)
- (B) Diploid (2n)
- (C) Triploid (3n)
- (D) Tetraploid (4n)

9. Which cell organelle is the primary site for the photorespiration (C2 cycle) glycolate pathway?

- (A) Chloroplast
- (B) Mitochondrion
- (C) Peroxisome
- (D) Nucleus

10. Who proposed the Five Kingdom Classification system?

- (A) Linnaeus
- (B) Whittaker
- (C) Darwin
- (D) Mendel

11. Which pigment acts as the reaction center in Photosystem II?

- (A) Chlorophyll a (P700)
- (B) Chlorophyll b
- (C) Chlorophyll a (P680)
- (D) Carotenoids

12. The presence of velamen tissue is a characteristic adaptation of which type of plants?

- (A) Xerophytes
- (B) Hydrophytes
- (C) Epiphytes
- (D) Halophytes

13. Which part of the Saffron plant (*Crocus sativus*) is used as the commercial spice?

- (A) Petals
- (B) Stamens
- (C) Stigma
- (D) Ovary

14. What is the main component of the cell wall in Bacillariophyceae (Diatoms)?

- (A) Cellulose
 - (B) Silica
 - (C) Chitin
 - (D) Pectin
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15. Which vector is most commonly used for the genetic transformation of dicotyledonous plants?

- (A) Plasmid pBR322
 - (B) Bacteriophage lambda
 - (C) *Agrobacterium tumefaciens* (Ti plasmid)
 - (D) Cosmids
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