

CUET 2026 May 19 Shift 1 Biology

Question Paper (Memory-Based)

Conducted by National Testing Agency (NTA)



General Instructions

- (i) The examination will be conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries +5 marks for correct answer and -1 mark for wrong answer.
- (iii) The total number of questions are 50.
- (iv) Duration of the exam is 1 hour (60 minutes).

1. In flowering plants, the pollen grain at the time of shedding from the anther is generally:

- (A) Three-celled with one vegetative cell and two male gametes
- (B) Two-celled with one vegetative cell and one generative cell
- (C) Four-celled with one tube nucleus and three male gametes
- (D) Uninucleate and non-vacuolated

2. Arrange the following wall layers of microsporangium from outermost to innermost:

- I. Tapetum
 - II. Middle layers
 - III. Epidermis
 - IV. Endothecium
- (A) III, IV, II, I
 - (B) III, II, IV, I
 - (C) IV, III, II, I
 - (D) I, II, III, IV

3. Which of the following events occurs during spermiogenesis but not during spermatogenesis?

- (A) Meiotic division of spermatocytes
 - (B) Formation of haploid cells
 - (C) Transformation of spermatids into spermatozoa
 - (D) Mitotic multiplication of spermatogonia
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4. Assertion (A): Filiform apparatus is important for pollen tube guidance.

Reason (R): Synergids secrete chemotropic substances that attract the pollen tube.

- (A) Both A and R are true and R is the correct explanation of A
 - (B) Both A and R are true but R is not the correct explanation of A
 - (C) A is true but R is false
 - (D) A is false but R is true
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5. Select the incorrect statement regarding meiosis in flowering plants.

- (A) Microspore mother cell undergoes meiosis to produce tetrads
 - (B) Megaspore mother cell produces four megaspores after meiosis
 - (C) All four megaspores usually remain functional
 - (D) Meiosis reduces chromosome number to half
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6. During HIV infection, which sequence correctly represents the events inside host cells?

- (A) Reverse transcription → RNA synthesis → Integration
 - (B) Integration → Reverse transcription → Viral protein synthesis
 - (C) Reverse transcription → Integration into host DNA → Viral replication
 - (D) Viral replication → Integration → Reverse transcription
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7. Which statement correctly distinguishes VNTR from coding DNA sequences?

- (A) VNTRs code for essential enzymes
 - (B) VNTRs show high polymorphism among individuals
 - (C) VNTRs are present only in prokaryotes
 - (D) VNTRs undergo translation
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8. A pollen grain with 120 chromosomes undergoes normal development. What will be the chromosome number in each male gamete formed later?

- (A) 120
 - (B) 240
 - (C) 60
 - (D) 30
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9. Which of the following is correctly matched?

- (A) Tapetum — Mechanical support
 - (B) Endothecium — Pollen nourishment
 - (C) Synergids — Filiform apparatus
 - (D) Antipodals — Male gamete production
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10. Select the correct sequence in gene expression in eukaryotes.

- (A) DNA → mRNA → hnRNA → Protein
 - (B) DNA → hnRNA → mRNA → Protein
 - (C) hnRNA → DNA → mRNA → Protein
 - (D) DNA → Protein → mRNA
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