

Karnataka PGCET 2026 Computer Science

Question Paper

For M.Tech / MCA / CSE Aspirants



General Instructions

- (i) The Karnataka PGCET examination is conducted in offline OMR-based mode.
- (ii) The question paper consists of two sections: Part A (Mathematics and Basic Sciences) and Part B (Computer Science Core Subjects).
- (iii) Part A contains 50 questions carrying 1 mark each, and Part B contains 25 questions carrying 2 marks each.
- (iv) The total marks for the examination are 100.
- (v) There is no negative marking for incorrect answers.
- (vi) Candidates are advised to focus on core Computer Science subjects such as C Programming, Data Structures, DBMS, Operating Systems, and Computer Networks.
- (vii) Use of calculators, mobile phones, or any electronic devices is strictly prohibited during the examination.
- (viii) Read all questions carefully before answering and mark the correct option clearly on the OMR sheet.

1. What is the worst-case time complexity of Quick Sort?

- (A) $O(n)$
- (B) $O(\log n)$
- (C) $O(n^2)$
- (D) $O(n \log n)$

2. Which data structure follows the FIFO principle?

- (A) Stack
 - (B) Queue
 - (C) Tree
 - (D) Graph
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3. Which SQL command removes all rows from a table without deleting the table structure?

- (A) DELETE
 - (B) DROP
 - (C) TRUNCATE
 - (D) REMOVE
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4. Which operating system concept is mainly used for process synchronization?

- (A) Compiler
 - (B) Semaphore
 - (C) Loader
 - (D) Interpreter
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5. If the trace of matrix A is 18 and two eigenvalues are 5 and 7, then the third eigenvalue is:

- (A) 4
 - (B) 5
 - (C) 6
 - (D) 7
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6. Evaluate: $\int_{-a}^a f(x) dx$ if $f(x)$ is an odd function.

- (A) 1
- (B) 2a

- (C) 0
 - (D) Cannot be determined
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7. L'Hospital's Rule is mainly used for:

- (A) Matrix multiplication
 - (B) Indeterminate forms
 - (C) Sorting algorithms
 - (D) Probability distribution
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8. The integrating factor of the differential equation $\frac{dy}{dx} + P(x)y = Q(x)$ is:

- (A) $e^{\int P(x) dx}$
 - (B) $e^{\int Q(x) dx}$
 - (C) $P(x) + Q(x)$
 - (D) $\frac{1}{P(x)}$
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9. In the OSI model, routing is performed by:

- (A) Transport Layer
 - (B) Session Layer
 - (C) Network Layer
 - (D) Data Link Layer
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10. Which tree traversal follows the order Left → Root → Right?

- (A) Preorder
 - (B) Postorder
 - (C) Inorder
 - (D) Level order
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