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SEAT No. _____

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SARDAR PATEL UNIVERSITY
Master of Computer Applications (MCA)
Semester – II External Examination
PS02CMCA03 (Data Structures and Advanced Programming Concepts)
10th April 2019, *wednesday*

Time: 10:00 a.m. to 1:00 p.m.

Max Marks: 70

Q-1 Choose the most appropriate option for each question:

[8]

1. The initial configuration of a queue is a, b, c, d, ('a' is in the front end). To get the configuration d, c, b, a, one needs a minimum of _____
 - A. 3 deletions and 4 additions
 - B. 2 deletions and 3 additions
 - C. 3 deletions and 3 additions
 - D. 3 deletions and 2 additions
2. A link list in which the last node points to the first node is
 - A. circular linked list
 - B. doubly linked list
 - C. singly linked list
 - D. All of these
3. A full binary tree with n leaves contains _____ nodes.
 - A. $2n - 1$
 - B. $2n + 1$
 - C. $2n$
 - D. n
4. Two main measures for the efficiency of an algorithm are _____
 - A. Time and space
 - B. Data and space
 - C. Complexity and capacity
 - D. Processor and memory
5. In C++ Program, a reference variable must be initialized at _____.
 - A. Run Time
 - B. Code Time
 - C. Compile Time
 - D. Debug Time
6. Overloading with explicit arguments to an operator function is known as _____ operator overloading.
 - A. Unary
 - B. Binary
 - C. Ternary
 - D. None of these
7. C++ does not allow _____ keyword.
 - A. new
 - B. this
 - C. class
 - D. inherit
8. In multiple inheritance, the constructors of _____ classes are invoked first.
 - A. base
 - B. child
 - C. subclass
 - D. None of these

(1)

(P.T.O.)

