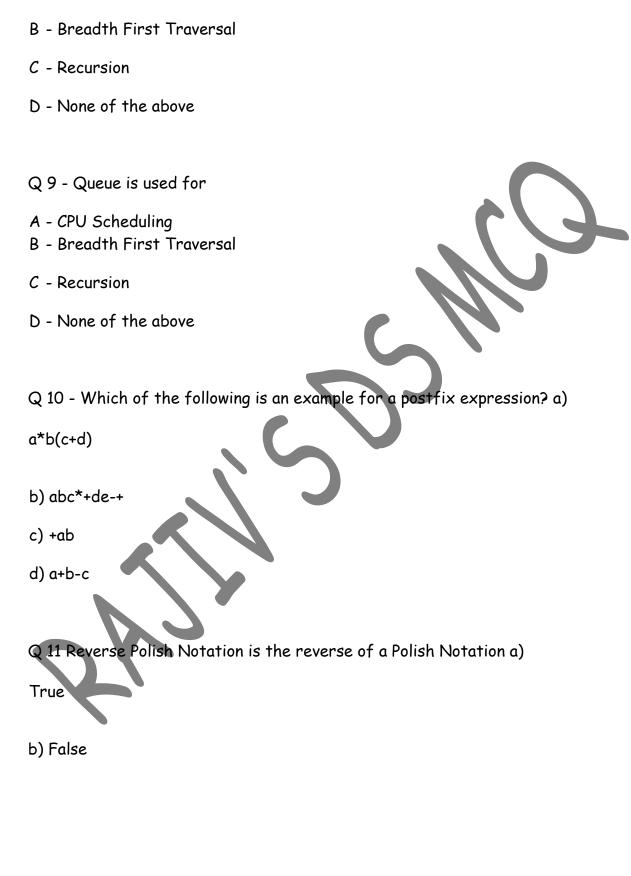
Q 1 - What is the worst case time complexity of linear search algorithm?
A - O(1)
B - O(n)
C - O(log n)
D - O(n2)
Q 2 - Which of the following uses FIFO method
A - Queue
B - Stack
C - Hash Table
D - Binary Search Tree
Q 3 - Which of the following uses LIFO method
A - Queue B - Stack
C - Hash Table
D - Binary Search Tree
Q 4 - Prefix notation is alsow known as
A - Reverse Polish Notation
B - Reverse Notation
C - Polish Reverse Notation

## D - Polish Notation

- Q 5 Postfix notation is also known as
- A Reverse Polish Notation
- **B** Reverse Notation
- C Polish Reverse Notation
- D Polish Notation
- Q 6 push() and pop() functions are found in
- A queues
- B lists
- C stacks
- D trees
- Q7 enqueue() and dequeue() functions are found in
- A queues
- B lists
- C stacks
- D trees
- Q8 Stack is used for
- A CPU Resource Allocation



Q 12 In Postfix expressions, the operators come after the operands. a)
True
b) False
Q 13 Which of these operators have the highest order of precedence? a)
'(' and ')'
b) '*' and '/'
c) '~' and '^'
d) '+' and '-'
14. What is the result of the given postfix expression? abc*+ where a=1, b=2, c=3.
a) 4
b) 5
c) 6
d) 7
15. What is the result of the following postfix expression?
ab*cd*+ where a=2,b=2,c=3,d=4.
a) 16
b) 12
c) 14
d) 10

16. Evaluate the postfix expression ab + cd/- whe	ere a=5, b=4, c=9, d=3. a)
23	
b) 15	
c) 6	

d) 10

17. Evaluate and write the result for the following postfix expression  $abc^*+de^*f+g^*+$  where a=1, b=2, c=3, d=4, e=5, f=6, g=2.

- a) 61
- b) 59
- c) 60
- d) 55

18. What would be the Prefix notation for the given equation? a+b-c/d&e|f

- a) &-+ab/cdef
- b) &|-+ab/cdef
- c) |&-ab+/cdef
- d) |&-+/abcdef

- 19. What would be the Prefix notation for the given equation?  $(a+(b/c)*(d^e)-f)$
- a) -+a\*/^bcdef
- b) -+a\*/bc^def
- $c) -+a*b/c^def$
- d) -a+\*/bc^def
- 20. What is the correct postfix expression for the following expression?

$$a+b*(c^d-e)^(f+g*h)-i$$

- a) abc^de-fg+\*^\*+i-
- b) abcde^-fg\*+\*^h\*+i-
- c) abcd^e-fgh\*+^\*+i-
- d) ab^-dc\*+ef^gh\*+i-