

Program: SE Computer Engineering
 Curriculum Scheme: Revised 2016
 Examination: Second Year Semester III
 Course Name: Data Structure
 Time: 1hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Define Stack
Option A:	stack is ordered collection of elements where insertion and deletion of element are done from one end only.
Option B:	stack is unordered collection of elements where insertion and deletion of element are done from one end only.
Option C:	stack is ordered collection of elements where insertion and deletion of element are done from both end.
Option D:	it is FIFO in nature
Q2.	Which are the following operation not perform on stack
Option A:	push
Option B:	pop
Option C:	display
Option D:	sort
Q3.	what is value of top variable when stack empty
Option A:	1
Option B:	-1
Option C:	0
Option D:	NULL
Q4.	if stack having 7 element then what is value of top variable
Option A:	4
Option B:	0
Option C:	7
Option D:	6
Q5.	how to assign value -1 to top variable in stack program using C if structure stack having st as structure variable
Option A:	top=-1
Option B:	top.st=-1
Option C:	st.top=-1
Option D:	top== -1
Q6.	How we can show stack is empty in program
Option A:	if (st.top == -1)
Option B:	if (st.top = -1)
Option C:	if(top ==-1)
Option D:	if(top=-1)

Q7.	How we can show stack is full in program
Option A:	if(st.top > SIZE-1)
Option B:	if(st.top >= SIZE)
Option C:	if(st.top >= SIZE-1)
Option D:	if(st.top >= SIZE-2)
Q8.	what will be for loop condition for display content of stack in C program
Option A:	for(int i=top;i>=0;i--){ }
Option B:	for(int i=st.top;i>=0;i--){ }
Option C:	for(int st.top=i;i>=0;i--){ }
Option D:	for(int i=st.top;i>=0;i++){ }
Q9.	which are the not application of stack
Option A:	infix to postfix conversion
Option B:	storing function call
Option C:	reversing string
Option D:	process scheduling
Q10.	In Infix to postfix conversion algorithm, if input read is '(' then
Option A:	pop top of the stack
Option B:	push it onto stack
Option C:	place it in postfix expression
Option D:	Pop ')' from stack
Q11.	In Infix to postfix conversion algorithm, if input read is operand then
Option A:	push it onto stack
Option B:	pop top of the stck
Option C:	place it in postfix expression
Option D:	Pop ')' from stack
Q12.	What will be postfix of following infix expression: $(9*7/9)+(6-2)$
Option A:	9 7 * 9 / 6 2 + -
Option B:	9 7 * 9 / 6 2 - +
Option C:	9 7 / 9 * 6 2 + -
Option D:	9 7 / 9 * 6 - 2 +
Q13.	While evaluating a postfix expression, when an operator is encountered, what is the correct operation to be performed?
Option A:	push it directly on to the stack
Option B:	pop 2 operands, evaluate them and push the result on to the stack
Option C:	pop the entire stack
Option D:	ignore the operator
Q14.	What is the result of the given postfix expression? abc*+ where a=1, b=2, c=3.
Option A:	4
Option B:	5

Option C:	6
Option D:	7
Q15.	The method which merges the bodies of two loops is
Option A:	loop rolling
Option B:	loop Jamming
Option C:	constant folding
Option D:	Loop unrolling
Q16.	What will be postfix of following infix expression: $9+7/4*6+3$
Option A:	$9\ 7\ 4 / 6\ * + 3$
Option B:	$9\ 7\ 4 / 6\ ++ 3\ *$
Option C:	$9\ 7\ 4\ * 6 / + 3 +$
Option D:	$9\ 7\ 4 / 6\ * + 3 +$
Q17.	Which are the following operation not perform on Queue
Option A:	Push
Option B:	insert
Option C:	Display
Option D:	isQfull
Q18.	what is value of front variable when simple queue empty
Option A:	1
Option B:	-1
Option C:	0
Option D:	NULL
Q19.	if in Simple queue value front is equal to value of rear,then how many element are there in queue
Option A:	4
Option B:	0
Option C:	7
Option D:	1
Q20.	How we can show Simple Queue is empty in program
Option A:	<code>if (Q.front==-1 Q.front>Q.rear)</code>
Option B:	<code>if (Q.front==-1 Q.front<Q.rear)</code>
Option C:	<code>if (Q.front=-1 Q.front>Q.rear)</code>
Option D:	<code>if (Q.front==0 Q.front>Q.rear)</code>
Q21.	How to show Single linked list is empty
Option A:	<code>head=NULL</code>
Option B:	<code>head==NULL</code>
Option C:	<code>temp=NULL</code>
Option D:	<code>New=NULL</code>
Q22.	what will be for loop condition for display content of Simple Queue in C program

Option A:	<code>for(int i=front;i<=rear;i++){ }</code>
Option B:	<code>for(int i=Q.front;i<=Q.rear;i++){ }</code>
Option C:	<code>for(int i=Q.front;i<=rear;i++){ }</code>
Option D:	<code>for(int i=Q.front;i<=Q.rear;i--){ }</code>
Q23.	In linked list,what return type of <code>insert_head()</code> function
Option A:	void
Option B:	int
Option C:	head
Option D:	node*
Q24.	In double ended queue,insertion can be done from
Option A:	rear end only
Option B:	top end only
Option C:	rear and front end both
Option D:	front end only
Q25.	How to delete element in circular queue? formula for front variable
Option A:	<code>front=(front%SIZE)+1;</code>
Option B:	<code>Q.front=(Q.front%SIZE)+1;</code>
Option C:	<code>front=(front)+1;</code>
Option D:	<code>Q.front=(Q.front)+1;</code>