Rajalakshmi Engineering College

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Status: -

Marks: 0/1

	A 1 A	element into the stack he stack becomes	already has five element	s. The stack		
200	Answer	240	2400	2400		
	-					
	Status : -			Marks : 0/1		
	6/*8-is					
	Answer					
240	Status : -	240801268	240801268	Marks : 0/1		
	5. In a stack data structure, what is the fundamental rule that is followed for performing operations?					
	Answer					
	-					
	Status: -			Marks : 0/1		
	6. What is the	value of the postfix exp	oression 6 3 2 4 + - *?	280126		
24	Answer	2,400	2400	2400		
	-					
	Status: -			Marks : 0/1		
	7. Consider the linked list implementation of a stack. Which of the following nodes is considered as Top of the stack?					
	Answer	201768	201768	20126		

	Status: -	1760	7,760	Marks : 0/1
240	8. What is the advan implementing a stack	tage of using a linked li ?	st over an array for	24080
	Answer			
	-			
	Status: -			Marks : 0/1
10		nplementation of the st in element from the top		lowing
V	-	r	Jr.	7"
	Status: -			Marks : 0/1
		owing Applications may	y use a Stack?	
	Answer -			
240	Status : -	40801768	40801268	Marks : 0/1
	11. Here is an Infix Expression: 4+3*(6*3-12). Convert the expression from Infix to Postfix notation. The maximum number of symbols that will appear on the stack AT ONE TIME during the conversion of this expression?			
	Answer			
	-			
	Status: -			Marks : 0/1
240	12. Consider a linked three operations:	d list implementation of	stack data structure	e with

push(value): Pushes an element value onto the stack pop(): Pops the top element from the stack.top(): Returns the item stored at the top of the stack. Given the following sequence of operations: push(10);pop();push(5);top(); What will be the result of the stack after performing these operations? Answer Status: -Marks: 0/1 13. When you push an element onto a linked list-based stack, where does the new element get added? Answer Status: -Marks: 0/1 14. In an array-based stack, which of the following operations can result in a Stack underflow? Answer Marks: 0/1 Status: -15. The user performs the following operations on the stack of size 5 then at the end of the last operation, the total number of elements present in the stack is push(1); pop(); push(2); push(3);

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pop();
   push(4);
pop();
   pop();
   push(5);
   Answer
                                                                    Marks: 0/1
   Status: -
   16. A user performs the following operations on stack of size 5 then
   which of the following is correct statement for Stack?
push(1);
   pop();
   push(2);
   push(3);
   pop();
   push(2);
   pop();
   pop();
   push(4);
   pop();
   pop();
   push(5);
   Answer
   Status: -
                                                                    Marks: 0/1
   17. What will be the output of the following code?
   #include <stdio.h>
   #define MAX_SIZE 5
                                                                        240801268
   int stack[MAX_SIZE];
   int top = -1;
int isEmpty() {
```

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return (top == -1);
int isFull() {
      return (top == MAX_SIZE - 1);
    void push(int item) {
      if (isFull())
        printf("Stack Overflow\n");
      else
        stack[++top] = item;
    int main() {
      printf("%d\n", isEmpty());
push(10);
      push(30);
      printf("%d\n", isFull());
      return 0;
    }
    Answer
    Status: -
                                                                     Marks: 0/1
    18. Which of the following operations allows you to examine the top
element of a stack without removing it?
    Answer
    Status: -
                                                                     Marks: 0/1
    19. What will be the output of the following code?
    #include <stdio.h>
    #define MAX_SIZE 5
int stack[MAX_SIZE];
```

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    int top = -1;
    void display() {
      if (top == -1) {
         printf("Stack is empty\n");
      } else {
         printf("Stack elements: ");
         for (int i = top; i >= 0; i--) {
           printf("%d ", stack[i]);
         printf("\n");
      }
    }
    void push(int value) {
    if (top == MAX_SIZE - 1) {
         printf("Stack Overflow\n");
      } else {
         stack[++top] = value;
      }
    int main() {
      display();
      push(10);
      push(20);
      push(30);
براهy();
push(40);
push(ح
      display();
      push(60);
      display();
      return 0;
    }
    Answer
    Status: -
                                                                           Marks: 0/1
    20. What will be the output of the following code?
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                                                       240801268
    #include <stdio.h>
#define MAX_SIZE 5 void push(int* stack, int* top, int item) {
      if (*top == MAX_SIZE - 1) {
         printf("Stack Overflow\n");
         return;
      }
      stack[++(*top)] = item;
    }
    int pop(int* stack, int* top) {
      if (*top == -1) {
                                                                                   240801268
         printf("Stack Underflow\n");
         return -1;
      return stack[(*top)--];
    int main() {
      int stack[MAX_SIZE];
      int top = -1;
      push(stack, &top, 10);
      push(stack, &top, 20);
      push(stack, &top, 30);
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                                                       240801268
      printf("%d\n", pop(stack, &top));
printf("%d\n", pop(stack, &top));
printf("%d\n", pop(stack, &top));
      printf("%d\n", pop(stack, &top));
      return 0;
    }
    Answer
                                                                              Marks: 0/1
    Status: -
```

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