Flextronics Technical Placement Paper

1. Memory is allocated from_____for each and every malloc function call

A) Stack

B) Heap

C) Static memory area

D) Cache

Answer: Option B.

2. When is a static variable initialized?

A) Every time the function containing it is called.

B) When it is globally declared.

C) Only when declared within a function.

D) Only the first time the function containing it is called

Answer: Option D.

3. What would be the output of following code?

```c
#include<stdio.h>

int main(int argc,char **argv)

{

int iVar=0, iCnt, aiArr[] = {56,23,4,89,-200,34};

for(iCnt = 1; iCnt <6; iCnt++)

{

if(aiArr[iCnt] < aiArr[iVar])

iVar = iCnt;

}

printf("%d",iVar);

return 0;

}
```

A) 4

B) 89

C) 3

D) -200

Answer: Option A.

4. Which of the following is not a type of constructor?

A) Copy constructor

B) Friend constructor

C) Default constructor

D) Parameterized constructor

Answer: Option B.

5. Under which of the following Big O notation it is suggested to review design of algorithm?

A) O(n2)

B) O(nlogn)

C) O(n)

D) O(2n)

Answer: Option D.

6. Which of the following is true about linked lists?

A) Primary education

B) Intermediate education

C) Higher education

D) Entire education system

Answer: Option C.

7. Which of the following sorting algorithms has the worst-case time complexity of O(n²)?

A) Merge Sort

B) Quick Sort

C) Bubble Sort

D) Heap Sort

Answer: Option C.

8. What will be the output of the following code?

#include<stdio.h>

int main() {

```
    int x = 5;

    printf("%d %d %d", x++, x++, ++x);

    return 0;

}
```

A) 5 6 8

B) 7 6 8

C) Undefined behavior

D) 6 7 8

Answer: Option C.

9. Which of the following is a storage class specifier in C?

A) public

B) static

C) private

D) class

Answer: Option B.

10. What is the time complexity of searching for an element in an unsorted array?

A) O(log n)

B) O(n)

C) O(n²)

D) O(1)

Answer: Option B.