PPS-Assignment 5

1 Consider the following C statements.

```
int a[5], sum = 0;
for(i=0;i<5;i++)
{
    if((a[i]%2))
        continue;
    sum += a[i];
}
```

What would be output of above code?

sum of odd numbers of a[]	sum of even numbers of a[]
sum of all the numbers of a[]	None of the above

2 What the following code performs?

```
int count = 0;
for(i=0;i<10;i++)
if(!(a[i]%2)) count++;
```

counts from 0 to 9	counts odd values in array
counts even values in array	counts zero values in array

3 What the following code performs?

```
int count = 0;
for(i=0;i<10;i++)
if(a[i]%2) count++;
```

counts from 0 to 9	counts odd values in array
counts even values in array	counts zero values in array

4

```
int a[] = {1,2,3,4,5};
for(i=0;i<4;i++) printf("%d ",a[++i]);
```

What would be output of above?

1 2 3 4	2 4
1 3 5	1 2 3 4 5

5	What is the maximun number of dimensions an array in C may have? A. Two B. eight C. sixteen D. Theoratically no limit. The only practical limits are memory size and compilers
6	A one dimensional array A has indices 1....75. Each element is a string and takes up three memory words. The array is stored at location 1120 decimal. The starting address of A[49] is A. 1264 B. 1164 C. 1167 D. 1267
7	Array is an example of _____type memory allocation A. Compile time B. Run time C. Both A and B D. None of the above
8	Size of the array need not be specified, when A. Initialization is a part of definition B. It is a formal parameter C. It is a declaratrion D. All of the above
9	**Calculate the output.**

```
#include <stdio.h>

int main()

{

   int arr[5] =
{1,2,3,4,5};

   int p, q, r;

   p = ++arr[1];

   q = arr[1]++;

   r = arr[p++];
```

```
#include <stdio.h>

int main()

{

   int a[1]={100};

   printf("%d", 0[a]);

   return 0;

}
```

```
#include <stdio.h>

int main()

{

int a[5]={5,1,15,20,25};

int i,j,m;

i = ++a[1];

j = a[1]++;

m = a[i++];

printf("%d, %d, %d", i, j, m);
```

	printf("%d, %d, %d", p, q, r);
	
	return 0;
	
	}
			return 0;
			
			}

10	Which is true about the given statment ? int arr[10] = {0,1,2,[7]=7,8,9}; A. Compipation Error B. Run-time Error C. This is allowed in C D. None of the above		
11	Write a C program to read 10 numbers from user and store them in an array. Display Sum, Minimum and Average of the numbers.		
12	Write a program to find a character from the string, string and character to be searched both will be given by user.		
13	Show 2D array declaration, initialization and iteration.		
14	Write a program to display transpose of given 3*3 matrix.		
15	Discuss various string functions with suitable examples.		
16	Write a program to print all Armstrong numbers in a given range. Armstrong number is equal to sum of cubes of its individual digits. For example 153 = 1^3 + 5^3 + 3^3. So, 153 is Armstrong number.		
17	What is an infinite loop explain with suitable example.		