Day-5 Practice Questions (9th August 2020)

1. What will be the output of the following program if the array begins at 65472 and each integer occupies 2 bytes?

```
#include<stdio.h>
void main()
{
        int a[3][4]={
                        1,2,3,4,
                        4,3,2,1,
                        7,8,9,0
                };
                printf("\n%u %u",a+1,&a+1);
}
```

(a)   65480 65496

(b)   65480 65492

(c)   65482 65496

(d)   65472 65496

Correct Answer:

2. What will happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?

(a) The element will be set to 0.

(b) Nothing, it's done all the time.

(c) The compiler would report an error.

(d) The program may crash if some important data gets overwritten.

(e) The array size would appropriately grow.

Correct Answer:

3. Which of the following is the correct output for the program given below?

```
#include<stdio.h>
```

```c
void 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);
}
```

(a)   2 1 15

(b)   1 2 5

(c)   3 2 15

(d)   2 3 20

(e)   3 1 15

Correct Answer:

4. Which of the following is the correct output for the program given below?

```c
#include<stdio.h>
void main()
{
        int i;
        char a[]="\0";
        if(printf("%s\n",a))
                printf("The string is empty");
        else
                printf("The string is not empty");
}
```

(a)   The string is empty

(b)   The string is not empty

(c)   No output

(d)   0

Correct Answer:

5. Which of the following is the correct output for the program given below?

#include<stdio.h>

void main()

{

       char p[]="%d\n";

       p[1]='c';

       printf(p,65);

}

(a)   65

(b)   a

(c)   c

(d)   A

(e)   Error

Correct Answer:

6. Which of the following is the correct for the program given below?

#include<stdio.h>

void main()

{

       printf(5 + "Fascimile");

}

(a)   Error

(b)   Fascimile

(c)   mile

(d)   None of the above

Correct Answer:

7. Which of the following is the correct output for the program given below?

```
#include<stdio.h>
void main()
{
        char str1[]="Hello";
        char str2[]="Hello";
        if(str1==str2)
                printf("\nEqual");
        else
                printf("\nUnequal");
}
```

(a)   Equal

(b)   Unequal

(c)   Error

(d)   None of the above

Correct Answer:

8. Which of the following is the correct output for the program given below?

```
#include<stdio.h>
void main()
{
printf("\n%d%d%d",sizeof(3.0f),sizeof("3"),sizeof(3.0));
}
```

(a)   8 1 4

(b)   4 2 8

(c)   4 2 4

(d)   10 3 4

Correct Answer:

9. Which of the following is the correct output for the program given below?

```
#include<stdio.h>
void main()
{
        int arr[5],i=-1,z;
        while(i<5)
                arr[i]=++i;
        for(i=0;i<5;i++)
                printf("%d",arr[i]);
}
```

(a) 1 2 3 4 5

(b) -1 0 1 2 3 4

(c) 0 1 2 3 4

(d) 0 -1 -2 -3 -4

Correct Answer:

10. What will be the output of the following program?

```
#include<stdio.h>
void main()
{
        static int a[20];
        int i=0;
        a[i]=i++;
        printf("\n%d%d%d",a[0],a[1],i);
}
```

(a)   0 0 1

(b)   0 1 1

(c)   1 0 0

(d)   1 0 1

Correct Answer:

Programming Question

1. WAP to print the following pyramid:

```
       *
      ***
     *****
    *******
   *********
    *******
     *****
      ***
       *
```

2. WAP to print the following pyramid:

```
*****
*   *
*   *
*   *
*****
```

3. WAP to print the following pyramid:

```
          1
        1   1
      1   2   1
    1   3   3   1
  1   4   6   4   1
1   5   10   10   5   1
```

4. WAP to input any string with white spaces and print the string after removing the white space.

5. WAP to input any string and find the total number of vowels, consonants from the given string.