1. What is the output of the following C program? #include <stdio.h> int main() { double a[2]=20.0,25.0,* p,* q; p=a; q=p+1; printf ("%d, %d", (int) (q-p), (int)(* q- * p)); return 0;} 4,8 1,5 8,5 1,8 B. C. A. D. 2. Consider the following C function definition. int f X(char * a) { char * b = a; while (*b) b ++; return b - a;} Which of the following statements is/are TRUE? [CS2024-2] a) The function call f X("a b c d") will always return a value b)Assuming a character array \square is declared as char $\square[]=$ "abcd" in main (), the function call $\Box\Box$ (c) will always return a value. c)The code of the function will not compile

d)Assuming a character pointer C is declared as char * C= "abcd" in main (), the function call fX(c) will always return a value

3.Consider the following C program. Assume parameters to a function are evaluated from right to left. [CS2024-2]

```
#include <stdio.h>
int g( int p) { printf("%d", p); return p; }
int h(i nt q) { printf("%d", q); return q; }
void f (int x, int y) {
    g(x); h(y); }
int main() {
    f (g(10), h(20));}
```

Which one of the following options is the CORRECT output of the above C program?

A.20101020

B.10202010 C. 20102010 D. 10201020

4.

```
void count(int n){
 static int d=1;
   printf("%d", n);
   printf("%d", d);
   d++;
   if(n>1) count(n-1);
   printf("%d",d);
 void main(){
   count(3);
(GATE 2016)
             a.312213444
             b.312111222
             c. 3122134
             d.3121112
1 nower (a)
```

1. Consider the following snippet of a C program. Assume that swap(&x, &y) exchanges the contents of x and y.

```
int main () {
    int array[] = \{3,5,1,4,6,2\};
    int done = 0;
    int i:
    while (done == 0) {
         done = 1;
         for (i = 0, i <= 4; i++) {
             if (array[i]< array[i+1]) {</pre>
                 swap (&array[i], &array[i+1]);
                 done = 0;
             }
         }
         for (i=5; i>=1; i-) {
            if (array[i] > array [i-1]) {
                swap(&array[i], &array[i-1]);
                done = 0;
            }
         printf("%d", array[3]);
The output of the program is ___3___
```

1. Consider the following C program.

```
#include<stdio.h>
int main () {
    int m = 10;
    int n, nl;
    n = ++m;
    n1 = m++;
    n-;
    -n1;
    n-= n1;
    printf ("%d",n),
    return 0;
```

The output of the program is _____0___

1. Consider the following function implemented in C:

2. void printxy(int x, int y) {
 int *ptr;
 x=0;
 ptr=&x;
 y=*ptr;
 *ptr=1;
 printf("%d, %d", x, y);
}

The output of invoking printxy(1,1) is

(GATE 2017)

a. 0, 0
b. 0, 1

c. 1, 0d. 1, 1