

1. What is the output of the following program?

```
#include<stdio.h>
int main()
{
    int n=10;
    while(1)
    {
        if(n==1)
            break;
        if(n%2==0)
            n=n/2;
        else
            n=3*n+1;
        printf("%d ",n);
    }
    return 0;
}
```

- ☐ 10 5 2 1
- ☐ 5 2 1
- ☒ 5 16 8 4 2 1
- ☐ Infinite loop

2. What will be the output of the following C language code?

```
#include<stdio.h>
int main()
{
    int n,r, c;
    n=7; r= 3;
    c=ct(n)/(ct(r)*ct(4));
    printf("%d", c);
    return 0;
}
int ct(int n)
{
    int i=1;
    while(n!=0)
    {
        i=i*n;
        n--;
    }
    return i;
}
```

- ☐ 42
- ☐ 54
- ☐ 68

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

```
#include<stdio.h>
int main()
{
    long int num,m,r;
    num=4341;
    while(num>10)
    {
        m = 0;
        while(num)
        {
            r = num%10;
            num = num/10;
            m += r;
        }
        if(m>10)
        {
            num = m;
        }
        else
        {
            break;
        }
    }
    printf("%d", m);
}
```

- ☐ 11
- ☐ 8
- ☒ 3
- ☐ 12

4. Find the output?

```
#include<stdio.h>
int main()
{
    char string[40]="ZenQ PVT Ltd";
    convert(string);
    printf("%s",string);
    return 0;
}
void convert(char s[])
{
    int c=0;
    while(s[c]!='\0')
```

```

{
    if(s[c]>='a' && s[c]<='z')
    {
        s[c]=s[c]-32;
    }
    else if(s[c]>='A' && s[c]<='Z')
    {
        s[c]=s[c]+32;
    }
    c++;
}
}

```

- ☐ zENq pvt ltd
- ☐ zenq pvt ltd
- ☐ ZenQ PVT Ltd
- ☒ zENq pvt ITD

5. Find the output?

```

#include<stdio.h>
int main()
{
    int num=11,i;
    for(i=0;i<num;i+=5)
    {
        printf("Hi ");
        continue;
        printf("Hello");
    }
}

```

- ☒ Hi Hi Hi
- ☐ Hello Hi Hi
- ☐ Hello Hello Hello
- ☐ Syntax error at line 6

6. Find the output?

```

#include<stdio.h>
int main()
{
    int i=0,j=0;
    l1:while(i<2)
    {
        i++;
        while(j<3)
        {

```

```

    printf("zenq");
    goto l1;
}
}
}

```

- ☒ zenqzenq
- ☐ zenq zenq
- ☐ zenq
- ☐ Error

7. Predict the output the following code?

```

#include <stdio.h>
#include <math.h>
int main()
{
    int a = 625;
    float b = pow(a, 0.5);
    printf("%.4f", b);
}

```

- ☐ 625.0000
- ☐ 25.00
- ☒ 25.0000
- ☐ 625.00

8. Predict the output of the following program?

```

#include <stdio.h>
int main()
{
    int i;
    for (i = 10; i >= 0; i -= 2)
    {
        printf("%d ", i);
    }
}

```

- ☒ 10 8 6 4 2 0
- ☐ 10 8 6 4 2
- ☐ 8 6 4 2 0
- ☐ 0 2 4 6 8 10

9.

What will be the output of the following program?

```
#include <stdio.h>
int main()
{
    int i, n = 10;
    for (i = 1; i <= 10; i++)
    {
        break;
        printf("%d ", i);
    }
}
```

- ☐ 1 2 3 4 5 6 7 8 9 10
- ☐ 2 4 6 8 10
- ☐ 1
- ☒ Nothing will be printed

10. Predict the output of the following program?

```
#include <stdio.h>
int main()
{
    int i;
    for (i = 100; i >= 91; i -= 2)
    {
        printf("%d ", i);
        break;
    }
}
```

- ☐ Nothing will be printed
- ☐ 100 98 96 94 92
- ☐ 100 98 96 94 92 90
- ☒ 100