1. **What is the right way to initialize array?**

   ⦿
   ```
   int num[6] = {12, 18, 147, 2, 6, 1};
   ```

   ○
   ```
   int n(6) = {12, 18, 147, 2, 6, 1};
   ```

   ○
   ```
   int n{6} = {12, 18, 147};
   ```

   ○
   ```
   int n{} = {12, 18, 147, 2, 6 1};
   ```

2.
   ```
   An array elements are always stored in _____ memory locations.
   ```

   ○ Sequential and Random
   ⦿ Sequential
   ○ Random
   ○ None of the above

3.
   ```
   Predict the output.

   #include<stdio.h>
   int main()
   {
       int a[3] = {20,30,40};
       printf("%d",*a);
       return 0;
   }
   ```

   ○ 20 30 40
   ⦿ 20
   ○ *20
   ○ Compilation error

4.

Predict the output.

```c
#include<stdio.h>
int main()
{
    int arr[]={2, 3, 4, 1, 6},i;
    for(i=0;i<5;i++)
    {
        printf("%d ",*(arr+i));
    }
    return 0;
}
```

- ○ 6 1 4 3 2
- ○ 2 3 4 5 6
- ● 2 3 4 1 6
- ○ None of the mentioned

5.

What is the output of the following program?

```c
#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

6.

What will the following code produce as output if a is 22 and b is 31?

```c
#include <stdio.h>
int main()
{
    int a, b, i;
    scanf("%d%d", &a, &b);
    for (i = a; i <= b; i += 2)
    {
        printf("%d ", i * i);
    }
}
```

○ 900 784 676 576 484

⦿ 484 576 676 784 900

○ 22 24 26 28 30

○ 30 28 26 24 22

7. **Predict the output the following code?**

```c
#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?**

```c
#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?**

```c
#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.**

```c
#include <stdio.h>
int main()
{
    int i;
    for (i = 100; i <= 250; i += 25)
    {
        if (i % 15 == 0)
        {
            break;
        }
        printf("%d ", i);
    }
}
```

○ 100 125 150 175 200 225 250

○ 100 125 150

● 100 125

○ 100