1. Predict the output of the following code snippet.

```
int main()
{
    const int i = 10;
    int *ptr = &i;
    *ptr = 20;
    printf("%d\n", i);
    return 0;
}
```

○ 10

○ Compile-time error

○ Undefined behavior

● Displays 20

2. Predict the output of the following code snippet.

```
#include<stdio.h>
int main()
{
    int x = 10000;
    double y = 56;
    int *p = &x;
    double *q = &y;
    printf("p and q are %d and %d", sizeof(p), sizeof(q));
    return 0;
}
```

● p and q are 8 and 8

○ p and q are 4 and 8

○ p and q are 2 and 8

○ Compiler error

3. Predict the output of the following code.

```
#include<stdio.h>
void main()
{
    int val = 1234;
    int* ptr = &val;
    printf("%d %d", val, *ptr++);
}
```

● 1234 1234

○ 1234 1235

○ 1235 1234

○ 0 0

4.

```
What will be the output of the following
char *pChar;
int *pInt;
float *pFloat;
printf("%d ", sizeof(pChar));
printf("%d ", sizeof(pInt));
printf("%d ", sizeof(pFloat));
```

○ 1 4 4

○ None

● 8 8 8

○ 1 4 8

5.

```
What is the output of this C code?
void main()
{
int a[3] = {1, 2, 3};
int *p = a;
int **r = &p;
printf("%p %p", *r, a);
}
```

○ 1 2

● Same address is Printed

○ 2 1

○ Different address is printed

6.

```
What is the output of following program?
# include <stdio.h>
void fun(int x)
{
    x = 30;
}
int main()
{
  int y = 20;
  fun(y);
  printf("%d", y);
  return 0;
}
```

○ Run Time Error

○ 30

○ Compiler Error

● 20

7.

```
Predict the output
#include <stdio.h>
    int main()
    {
        int *ptr, a = 50;
        ptr = &a;
        *ptr += 1;
        printf("%d,%d", *ptr, a);
    }
```

○ 56,60

● 51 ,51

○ 45,49

○ 50, 51

8.

```
What is the output of this code ?
#include<stdio.h>
int main()
{
int *ptr, a = 20;
ptr = &a;
*ptr -= 1;
printf("%d,%d", *ptr, a);
}
```

● 19,19

○ 10,10

○ 10,11

○ 15,3

9. What is pointer?

○ variable

○ integer

○ String

● Reference of a variable

10. What will be the output of the following C code?

```
void main() {
  int a[] = {1,2,3,4,5}, *p;
  p = a;
  ++*p;
  printf("%d ", *p);
  p += 2;
  printf("%d ", *p);
}
```

○ **24**

● **23**

○ **22**

○ **21**