

Intern Name:
Intern ID:

Max Marks: 75

- Subjective answer should be brief and to the point.
- Maintain proper coding standards and indentation.
- Do not write anything on the question papers. Each question has 5 marks
- Explain each concept with example. Concept without example will not be given marks.

1. int main()

```
{
    int arr1[10], arr2[10], i;
    for( i = 0 ; i <= 9 ; i++)
    {
        arr1[i] = 'A' + i ;
        arr2[i] = 'a' + i;
        printf("%d\n", arr2[i] - arr1[i]);
    }
}
```

2. int main()

```
{
    static int a[] = { 10, 20, 30, 40 , 50};
    int j;
    for( j = 0; j < 5 ; j ++ )
    {
        printf("%d\n", *a);
        a ++ ;
    }
}
```

3.int main()

```
{
    int arr[5] = {0},
    printf("%d",0[arr]);
}
```

4.int main()

```
{
    int arr[5] = {1, 3, 4, 5, 6};
    int *p[] = { arr + 4, arr + 3, arr + 2, arr + 1, arr + 0};
    int **ptr = p;
    printf("%u %u %u %u",arr + 4, p + 4, ptr + 4, *p[4]);
}
```

5.int main()

```
{
    int arr[5] = {1, 2, 3, 4, 5};
    printf("%u %u %u %u",arr, &arr, arr + 1, &arr + 1);
}
```

6.int main()

```
{
    char a[4] = "I am fine";
    printf("%s",a);
}
```

```

7.int main( )
{
    static int b[] = { 10, 20 , 30, 40, 50 };
    int i , *k;
    k = &b[4] - 4 ;
    for ( i = 0 ; i <= 4 ; i++)
    {
        printf( "%d\n" , *k);
        k ++ ;
    }
}

8.int main()
{
    int arr[] = { 0, 1 , 2 , 3 , 4 };
    int i , *ptr;
    for ( ptr = &arr[0], i = 0 ; i <= 4 ; i ++ )
        printf( "%d\n", ptr[i]);
}

9.int main()
{
    float a[] = {12.4, 23.4, 23.6, 67.8};
    printf("%d\n", sizeof(a)/sizeof(a[0]));
}

```

Read this and write what you read:

10. int (*ptr)[10]; 11. char ((*fptr[3])())[20]; 12. int ((*fptr())[3])();

```

13.int 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 );
}

14.int main()
{
    int arr[] = { 0, 1, 2, 3, 4};
    int *ptr , i ;
    for(ptr = arr + 4 ; ptr >= arr ; ptr --)
        printf( "%d\n", arr[ptr - arr]);
}

15. int main()
{
    int a[3][4] = { 1. 2. 3. 4. 4. 3. 2. 8. 7. 8. 9. 0 };
    a++;
    printf("%d", a);
}

```

All the best