

The LNM Institute of Information Technology

Quiz-2 –2016 Computer Programming(CP)

Time:30 Minute

Course Code : CSE104

Max Marks: 15

Q1. Find the output of the following program segments (Show the workout in the Box given) [1.5X10]

(a) #include<stdio.h> int main() { char *p; p="hello"; printf("%c\n", **&*p); return 0; }	
(b) void main() { int a[5] = {50, 100, 150, 200, 250}; int i, j, m; i = ++a[2]; j = a[2]+ a[1]++; m = a[0]+a[1]; printf("%d, %d, %d", i, j, m); }	
(c) void fun(int **ptr) { **ptr=100; } void main() { int num=50; int *pp=# fun(&pp); printf("%d,%d",num,*pp); }	
(d) #include <stdio.h> void main() { char *s= "hello"; char *p = s; printf("%c\t%c", *(p + 3), s[1]); }	
(e) #include <stdio.h> int main() { char *str="IncludeHelp"; printf("%c\n", *str); return 0; }	

(f) <pre> int check (int, int); void main() { int c; c = check(10, 20); printf("c=%d\n", c); } int check(int i, int j) { int *p, *q; p=&i; q=&j; return i<=45 ? *p : *q; } </pre>	
(g) <pre> #include <stdio.h> int main() { int ary[4] = {1, 2, 3, 4}; int *p = ary + 3; printf("%d\n", p[-2]); } </pre>	
(h) <pre> #include <stdio.h> void main() { char *s= "hello"; char *p = s; printf("%c\t%c", 1[p], s[1]); } </pre>	
(i) <pre> void main() { int fun(int); int i = fun(50); printf("%d\n", --i); } int fun(int i) { return (i--); } </pre>	
(j) <pre> #include<stdio.h> int main() { int a[] = {1,2,3,4,5}; printf("%d, %d, %d\n", sizeof(int), sizeof(arr), sizeof(arr[0])); return 0; } </pre>	

Q2. Find errors in given code and give proper justification for same.

<p>(a)</p> <pre>#include<stdio.h> void main() { int c=- -2; printf("c=%d",c); }</pre>	
<p>(b)</p> <pre>#include<stdio.h> void main() { i=65; printf("%c",i); }</pre>	
<p>(c)</p> <pre>#include<stdio.h> void main() { int i = 10, j = 20; if(i = 5) && if(j = 10) printf("Have a nice day"); }</pre>	

Q3. Complete the program(given below) to display the following Pattern:

```

1   2   4   8   16  32
0   1   2   4   8   16
0   0   1   2   4   8
0   0   0   1   2   4
0   0   0   0   1   2
0   0   0   0   0   1
```

```
#include <stdio.h>
```

```
#include <math.h>
```

```
void main()
```

```
{
```

```
    int i, j;
```

```
    for(i = ____ ; i<= ____ ; i ____ )    // [ 1 Mark]
```

```
    {
```

```

for( j= ____ ; j<= ____ ; j____ )    // [ 1 Mark]
    if( ____ )                        // [ 1 Mark]
        printf("1 ");
    else
        if( ____ )                    // [ 1 Mark]
            printf("0 ");
        else
            printf("%d ", pow(2, ____ )); // [ 1 Mark]
printf("\n");                        // pow(2,i) means 2i
}
}

```