





HITBULLSEYE

LEVEL 1: LPU TECHNICAL TEST 04

Question No: 1

DIRECTIONS for the question: Mark the best option:

Point out the error in the following program.

```
#include
int main()
{
char str[] = "hitsbullseye";
printf("%.#s %2s", str, str);
return 0;
}
```

- in Array declaration
- printf statement

- o unspecified character in printf
- No error

```
DIRECTIONS for the question: Mark the best option:
Find the output of following snippet?
# include
void main()
{
    char letter = 'Z';
    printf("%c",letter);
}

    Z

    90

    Garbage Value
    Error

Question No: 3
```

DIRECTIONS for the question: Mark the best option:

```
What will be the output of the program?
#include
#define SQR(x)(x*x)
int main()
{
int a, b=3;
a = SQR(b+2);
printf("%d\n", a);
return 0;
}

25

11

Error

Garbage value
```

```
DIRECTIONS for the question: Mark the best option:
What will be the output of the program if value 25 given to scanf()?
#include
int main()
int i;
printf("%d\n", scanf("%d", &i));
return 0:
\odot
   1
    5
   25
Question No: 5
DIRECTIONS for the question: Mark the best option:
What is the ouput of the given snippet?
void main()
char far *farther, *farthest;
printf("%d,%d",sizeof(farther),sizeof(farthest));
    2.4
   syntax error
   compiler error
Question No: 6
DIRECTIONS for the question: Mark the best option:
What will be the content of 'file.c' after executing the following program?
#include
int main()
FILE *fp1, *fp2;
```

DIRECTIONS for the question: Mark the best option:

```
What is the output of following snippet?
main()
{
int c[] = { 2.8,3.4,4,6.7,5};
int j,*p=c,*q=c;
for(j=0;j<5;j++)
{
  printf("%d",*c);
  ++q;
}
for (j =0; j<5;j++)
{
  printf("%d",*p);
  ++p;
}
}

  syntax error

  compiler error

  5 6 4 5 2 2 2 2 2
```

```
DIRECTIONS for the question: Mark the best option:
What will be the output of the program?
#include
int main()
float arr[] = \{12.4, 2.3, 4.5, 6.7\};
printf("%d\n", sizeof(arr)/sizeof(arr[0]));
return 0;
    4
    5
    6
   7
Question No: 9
DIRECTIONS for the question: Mark the best option:
What is the output of above snippet?
main()
char *p;
p ="Hello";
printf ("%c\n" *&*p);
(•)
    H
    syntax error
   compiler error
    E
Question No: 10
DIRECTIONS for the question: Mark the best option:
What is the ouput of given snippet?
main()
```

```
int i;
printf("%d",scanf("%d",&i));
// value 10 is given to the input here
(
   1
compiler error
syntax error
    2
Question No: 11
DIRECTIONS for the question: Mark the best option:
What will be output of following c program?
void main()
int a,i=4;
a=- -i+- -i+- -5;
printf("%d %d",a,i);
• 13 4
```

0 . -3 2

0 -134

0 72

DIRECTIONS for the question: Mark the best option:

```
Find the output from following program?
#include
int main()
{
int a = 10, b;
a > =5 ? b=100: b=200;
printf("%d\n", b);
return 0;
}
```

```
100
```

200

• Error: L value required for b

Garbage value

Question No: 13

DIRECTIONS for the question: Mark the best option:

```
What will be the output of the program? #include int main() { int i; i = printf("How r u\n"); i = printf("%d", i); printf("%d", i);
```

```
return 0;
   How r u 7 2
   Howru82
   How r u 1 1
   Error: cannot assign printf to variable
Question No: 15
DIRECTIONS for the question: Mark the best option:
What will be output of following c program?
#include
typedef struct stu1
int roll;
char *name;
double marks;
STU1:
typedef struct stu2
int roll;
char *name;
double marks;
STU2;
void main()
STU1 s1={25,"Rohit",87.43},*p1;
STU2 *p2; p1=&s1;
memcpy(p2,p1,4);
       printf("Roll : %d\n",p2->roll);
printf("Name : %s\n",p2->name);
printf("Marks : %lf",p2->marks);
   Roll: 25 Name: Rohit Marks: 87.430000
   Roll: 25 Name: Rohit Marks: 0.000000
```

Roll: 0 Name: Rohit Marks: 87.430000

Roll: 0 Name: null Marks: 0.000000

```
DIRECTIONS for the question: Mark the best option:
Assume integer is 2 bytes wide. How many bytes will be allocated for the
following code?
#include
#include
#define MAXROW 3
#define MAXCOL 4
int main()
int (*p)[MAXCOL];
p = (int (*) [MAXCOL])malloc(MAXROW *sizeof(*p));
return 0;
   56 bytes
   128 bytes
   24 bytes
    12 bytes
Question No: 17
```

```
DIRECTIONS for the question: Mark the best option:
What will be output when you will execute following c code?
void main()
{
volatile int a=11;
printf("%d",a);
}
Garbage
11
2

We cannot predict
```

```
DIRECTIONS for the question: Mark the best option:
Consider the following C program.
void f(int, short);
void main()
int i = 100:
short s = 12:
short p = s;
               // call to f()
Which one of the following expressions, when placed in the blank above,
will NOT result in a type checking error?
\circ f(s, *s)
\circ i = f(i,s)
\circ f(i,*s)
  f(i,*p)
Question No: 19
DIRECTIONS for the question: Mark the best option:
Predict the output of following program
#include
int main()
int n;
for (n = 9; n!=0; n--)
printf("n = %d", n--);
return 0;
}
0 97531
   987654321
  Infinite Loop
    9753
```

```
DIRECTIONS for the question: Mark the best option:
Predict the output of following program:
#include
int main()
int i = 0;
for (i=0; i<20; i++)
switch(i)
case 0:
i += 5;
case 1:
i += 2;
case 5:
i += 5;
default:
i += 4;
break;
printf("%d ", i);
return 0;
0 5 10 15 20
   5 12 15 20
    16 21
   Compiler Error
Question No: 21
DIRECTIONS for the question: Mark the best option:
In the context of the below program snippet, pick the best answer.
#include "stdio.h"
int arr[10][10][10];
int main()
```

```
arr[5][5][5] = 123;
return 0;
}

Which of the given printf statement(s) would be able to print arr[5][5][5]
(i) printf("%d",arr[5][5][5]);
(ii) printf("%d",*(*(*(arr+5)+5));
(iii) printf("%d",(*(*(arr+5)+5))[5]);
(iv) printf("%d",*((*(arr+5))[5]+5));

only (i) would compile and print 123.

both (i) and (ii) would compile but only (i) and (ii) would print 123.

only (i), (ii) and (iii) would compile and all three would print 123.

all (i), (ii), (iii) and (iv) would compile but only (i) and (ii) would print 123.
```

DIRECTIONS for the question: Mark the best option:

- Compiler Error due to (b=a+2) in the first printf().
- No compile error but output would be =11 X= where X would depend on compiler implementation.

```
DIRECTIONS for the question: Mark the best option:
What's going to happen when we compile and run the following C
program snippet?
#include "stdio.h"
int main()
int a = 10:
printf("=%d %d=",(a+1));
return 0;
}
O =11 0=
○ =11 X= where X would depend on Compiler implementation
Undefined behaviour
   Compiler Error due to missing argument for second %d
Question No: 24
```

DIRECTIONS *for the question:* Mark the best option:

What is the output of the following code?

```
class change:
def__init__(self, x, y, z):
self.a= x + y + z
x = change(1,2,3)
y =getattr(x,'a')
setattr(x,'a', y+1)
print(x.a)
    6
Error
    0
```

DIRECTIONS for the question: Mark the best option: What be following would of Python code? the output name1="Roger" name2="Robert" defswap_names(name1,name2): temp=name1 name1=name2 name2=temp print("Before swapping: name1="+name1+" name2="+name2) swap names(name1, name2) name2="+name2) print("After swapping: name1="+name1+" A) **Before** swapping: name1=Roger name2=Robert After swapping: name1=None name2=None B) swapping: **Before** name1=Roger name2=Robert After swapping: name1=Robert name2=Robert C) **Before** swapping: name1=Roger name2=Robert swapping: After name1=Roger name2=Robert D) name1=Roger **Before** swapping: name2=Robert After swapping: name1=Robert name2=Roger A В \mathbf{C} D

DIRECTIONS for the question: Mark the best option: What is the of the below Python code? output imports Note: Assume that necessary have been done 'Bangalore', 'Pune', 'Chennai'] temp=['Mysore', temp.sort() count1=len(temp[0]) count2=len(temp[-1]) final_val=math.ceil(count1/count2) print(final_val) 3 • 2 1

Question No: 27

4

DIRECTIONS for the question: Mark the best option:

Let A be a square matrix of size n x n. Consider the following program. What is the expected output?

```
C = 100
for i = 1 to n do
    for j = 1 to n do
    {
        Temp = A[i][j] + C
        A[i][j] = A[j][i]
        A[j][i] = Temp - C
    }
for i = 1 to n do
    for j = 1 to n do
    Output(A[i][j]);
```

- Adding 100 to the upper diagonal elements and subtracting 100 from diagonal elements of A
- The matrix A itself

- Transpose of matrix A
- None of the above

DIRECTIONS *for the question:* Mark the best option:

- 0
- 0 1
- Undefined behaviour
- Compile time error
- None of the above

Question No: 29

DIRECTIONS for the question: Mark the best option:

Observe following program:

```
class Example { public: int a,b,c; Example(){a=b=c=1;} //Constructor 1 Example(int a){a = a; b = c = 1;} //Constructor 2 Example(int a,int b){a = a; b = b; c = 1;} //Constructor 3 Example(int a,int b,int c){ a = a; b = b; c = c;} //Constructor 4 }
```

In the above question of constructor overloading, the following statement will call which constructor

Example obj = new Example (1,2,3);

- Constructor 2
- Constructor 4
- Constructor 1
- Type mismatch error

DIRECTIONS for the question: Mark the best option:

The return value of the following code is

```
Class1& test(Class1 obj)
{
Class1 *ptr = new Class1();
.....
return ptr;
}

object of Class1
reference to ptr
reference of Class1
```

object pointed by p