



HITBULLSEYE

LEVEL 1: LPU TECHNICAL TEST 05

Question No: 1

DIRECTIONS for the question: Mark the best option:

What will be the output of the program?

```
#include
int main()
{
    int i = 5;
    while(i== 0)
        printf("%d,", i);
    i = 5;
    printf("\n");
    while(i == 0)
```

```
printf("%i,", i);  
while(i-->= 0)  
printf("%d,", i);  
return 0;  
}
```

- ☐ 4, 3, 2, 1, 0, -1
- ☐ 4, 3, 2, 1, 0, -1
- ☐ 5, 4, 3, 2, 1, 0
- ☐ 5, 4, 3, 2, 1, 0
- ☒ Error
- ☐ 5, 4, 3, 2, 1, 0
- ☐ 5, 4, 3, 2, 1, 0
- ☐ 5, 4, 3, 2, 1, 0

Question No: 2

DIRECTIONS for the question: Mark the best option:
What will be the output

```
import re  
word="Indian Airlines4"  
if(re.search(r"^\d",word) and re.search(r"e$",word)):  
print(re.sub(r"Indian",r"Singapore",word))  
else:  
print(re.sub(r"s(\d{1})",r"S\1",word))
```

- ☐ Indian AirlineS
- ☒ Indian Airline4
- ☐ Indian AirlineS4
- ☐ Singapore AirlineS4

Question No: 3

DIRECTIONS for the question: Mark the best option:

What will be the output of following java code?

```
import java.util.*;
public class genericstack
{
    Stack stk = new Stack ();
    public void push(E obj)
    {
        stk.push(obj);
    }
    public E pop()
    {
        E obj = stk.pop();
        return obj;
    }
}
class Output
{
    public static void main(String args[])
    {
        genericstack gs = new genericstack();
        gs.push("Hello");
        System.out.println(gs.pop());
    }
}
```

- ☒ Compile time error
- ☐ Runtime error
- ☐ H
- ☐ None of the above

Question No: 4-A

DIRECTIONS for the question: Mark the best option:
Select the appropriate code for the recursive Tower of Hanoi problem.(n is the number of disks)

- ☒
- ☐
- ☐
- ☐

Question No: 5

DIRECTIONS for the question: Mark the best option:
What Will Be The Output Of The Following Code Snippet?

```
class Person:
    def __init__(self, id):
        self.id = id

sam = Person(100)

sam.__dict__['age'] = 49

print(sam.age + len(sam.__dict__))
```

- ☐ 1
- ☒ 51
- ☐ 49
- ☐ 50

Question No: 6

DIRECTIONS for the question: Mark the best option:
What is the output of the following program?

```
public class TestFirstApp {
    public static void magic(int x) {
        System.out.print(x);
        if ((x/10) != 0)
            magic(x/10);
    }
}
```

```

        System.out.print(x);
    }
    public static void main(String[ ] args) {
        TestFirstApp.magic(2357);
    }
}

```

- ☐ 2357
- ☐ 75322357
- ☒ 7532
- ☐ Runtime error

Question No: 7

DIRECTIONS for the question: Mark the best option:

What could be the output of the code

balance=1000

amount="300Rs"

```

def take_card():
    print("Take the card out of ATM")
    try:
        if balance>=int(amount):
            print("Withdraw")
        else:
            print("Invalid amount")
    except TypeError:
        print("Type Error Occurred")
    except ValueError:
        print("Value Error Occurred")
    except:
        print("Some error Occurred")
    finally:
        take_card()

```

- ☐ Some error Occurred
Take the card out of ATM
- ☐ Type Error Occurred
Take the card out of ATM
- ☐ Invalid amount
Take the card out of ATM
- ☒ Value Error Occurred
Take the card out of ATM

Question No: 8

DIRECTIONS for the question: Mark the best option:
What will be the output of this code

```
song="JINGLE Bells jingle Bells Jingle All The Way"  
song.upper()  
song_words=song.split()  
count=0  
for word in song_words:  
if(word.startswith("jingle")):  
count=count+1  
print(count)
```

- ☐ 0
- ☐ 3
- ☐ 2
- ☒ 1

Question No: 9

DIRECTIONS for the question: Mark the best option:
What will be the output

```
import math  
num_list=[100.5,30.465,-1.22,20.15]
```

```
num_list.insert(1, -100.5)
num_list.pop(0)
num_list.sort()
print(math.ceil(math.fabs(num_list[0])))
```

- ☒ 101
- ☐ 102
- ☐ 30
- ☐ 31

Question No: 10

DIRECTIONS for the question: Mark the best option:
What will be the output

```
sample_dict={'a':1,'b':2}
sample_dict.update({'b':5, 'c':10 })
print(sample_dict.get('a'),sample_dict.get('b'),sample_dict.get('c'))
```

- ☐ None, 5, 10
- ☒ 1, 5, 10
- ☐ 1, 2, None
- ☐ 1, 5, None

Question No: 11

DIRECTIONS for the question: Mark the best option:
What will be the output of this code

```
g = lambda x: x%2 ==0
if (g(11)):
    print("The number is even")
else:
    print("The number is odd")
```

- ☒ The number is

odd

- ☐ The number is even
- ☐ Run Time Error
- ☐ Syantax Error

Question No: 12

DIRECTIONS for the question: Mark the best option:

What will be the output

```
def add(data):  
    return data+2  
def prod(data):  
    return data*2  
def main_fun(function1,function2, number_list):  
    result_sum=0  
    for num in number_list:  
        if(num%3==0):  
            result_sum=result_sum+function1(num)  
        else:  
            result_sum=result_sum+function2(num)  
    return result_sum  
number_list=[1,3,5,6]  
print(main_fun(add, prod, number_list))
```

- ☐ 35
- ☒ 25
- ☐ 45
- ☐ 105

Question No: 13

DIRECTIONS for the question: Mark the best option:

```
#include  
int *i;
```



```
int main()
{
if (i == NULL)
printf("true \n");
return 0;
}
```

- ☒ true
- ☐ true only if NULL value is 0
- ☐ Compile time error
- ☐ Nothing

Question No: 14

DIRECTIONS for the question: Mark the best option:

What is the output of this C code?

```
#include
void fun(char *k)
{
printf(" %s", k);
}
void main()
{
char s[] = "hello";
fun(s);
}
```

- ☒ hello
- ☐ Run time error
- ☐ Nothing
- ☐ h

Question No: 15

DIRECTIONS for the question: Mark the best option:

What is the output of this program?

```
include
using namespace std;
int main ( )
{
int n;
n = 43;
cout << hex << n << endl;
return 0;
}
```

- ☐ 2c
- ☒ 2b
- ☐ 20
- ☐ 50

Question No: 16

DIRECTIONS for the question: Mark the best option:

What will be the output of following java code?

```
class recursion
{
    int func (int n)
    {
        int result;
        result = func (n - 1);
        return result;
    }
}
class Output
{
    public static void main(String args[])
    {
        recursion obj = new recursion() ;
    }
}
```

```
        System.out.print(obj.func(12));
    }
}
```

- ☐ 0
- ☐ 1
- ☐ Compile time error
- ☒ Runtime error

Question No: 17

DIRECTIONS for the question: Mark the best option:
Which of the following statements are correct about the program below?

```
#include
int main()
{
    int size, i;
    scanf("%d", &size);
    int arr[size];
    for(i=1; i<=size; i++)
    {
        scanf("%d", arr[i]);
        printf("%d", arr[i]);
    }
    return 0;
}
```

- ☐ The code is correct and runs successfully.
- ☒ The code is erroneous since the statement declaring array is invalid.
- ☐ The code is erroneous since the subscript for array used in for loop is in the range 1 to size.
- ☐ The code is erroneous since the values of array are getting scanned through the loop.

Question No: 18

DIRECTIONS for the question: Mark the best option:

The correct way to declare and assign a function pointer is done by:

(Assuming the function to be assigned is "int multi(int, int);")

- ☒ **int (*fn_ptr)(int, int) = multi;**
- ☐ int *fn_ptr(int, int) = multi;
- ☐ int *fn_ptr(int) = multi;
- ☐ Both (b) & (c)

Question No: 19

DIRECTIONS for the question: Mark the best option:

What is the output of this program?

```
#include
using namespace std;
ostream & operator<<(ostream & i, int n)
{
    return i;
}
int main()
{
    cout << 5 << endl;
    cin.get();
    return 0;
}
```

- ☐ 5
- ☐ 6
- ☒ **Error**
- ☐ runtime error

Question No: 20

DIRECTIONS for the question: Mark the best option:

What will be displayed when the following code is executed?

```
#include
class CustomerData
{
public: CustomerData()
{
    Cout<<"Default Constructor"<<endl;< div="" style="user-select:
text !important;">
}
};
int main (int argc, char** argv)
{
    CustomerData * poCustomerData;
    poCustomerData = new CustomerData;
    cout<<"CustomerData Class pointer created"<<endl;< div=""
style="user-select: text !important;">
    return 0;
}</endl;<>
</endl;<>
```

- ☐ Default Constructor
- ☒ Default Constructor CustomerData Class pointer created
- ☐ Nothing is displayed
- ☐ CustomerData Class pointer created

Question No: 21

DIRECTIONS for the question: Mark the best option:

What is the output of this C code?

```
void main()
{
int a[2][3] = {1, 2, 3, , 4, 5};
int i = 0, j = 0;
for (i = 0; i < 2; i++)
for (j = 0; j < 3; j++)
printf("%d", a[i][j]);
}
```

- ☐ 1 2 3 0 4 5
- ☐ 1 2 3 junk 4 5
- ☐ 1 2 3 3 4 5
- ☒ Compile time error

Question No: 22

DIRECTIONS for the question: Mark the best option:

What is the output of the following program?

```
#include
```

```
void dynamic(int a, ...)
{
    printf("%d ", a);
}
```

```
int main()
{
    dynamic(2, 4, 6, 8);
    dynamic(3, 6, 9);
    return 0;
}
```

- ☐ 4 6
- ☒ 2 3
- ☐ 4 9

Question No: 23

DIRECTIONS for the question: Mark the best option:
Predict the error in the given Code Snippets

```
#include
int main()
{
    int i;
        #if B
printf("Enter any number:");
scanf("%d", &i);
        #elif C
printf("The number is even");
return 0;
}
```

- ☒ The number is even
- ☐ Garbage values
- ☐ Can't say
- ☐ Error: unexpected end of file because there is no matching #endif

Question No: 24

DIRECTIONS for the question: Mark the best option:
What will be the output of following Code Snippets?

```
#include
int main()
{
    int a = 20, b = 4;
    int* ra = &a, *rb = &b;
    printf("value = %d", *ra/*rb);
```

```
return 0;  
}
```

- ☐ 5.0
- ☒ 5
- ☐ 5.00
- ☐ Error

Question No: 25

DIRECTIONS for the question: Mark the best option:
What will be the output of following Code Snippets?

```
#include
```

```
int main()  
{  
char huge *near *far *ptr1;  
char near *far *huge *ptr2;  
char far *huge *near *ptr3;  
printf("%d, %d, %d\n", sizeof(**ptr1), sizeof(ptr2), sizeof(*ptr3));  
return 0;  
}
```

- ☐ 3,3,2
- ☒ 4,4,4
- ☐ 5,4,5
- ☐ 5,6,8

Question No: 26

DIRECTIONS for the question: Mark the best option:
Will the program outputs "Hitbullseye"?

```
#include
```



```
#include
```

```
int main()  
{  
char str1[] = "Hitbullseye";  
char str2[30];  
strncpy(str2, str1, 11);  
printf("%s", str2);  
return 0;  
}
```

- ☐ No
- ☒ **Yes**
- ☐ Error
- ☐ Can't Stay

Question No: 27

DIRECTIONS for the question: Mark the best option:
What will be the output of following Code Snippets?

```
#include  
#define Bullseye 500  
int main()  
{  
#define Bullseye 500  
printf("%d", Bullseye);  
return (0);  
}
```

- ☐ No output
- ☒ **500**
- ☐ Abnormal Termination
- ☐ Compile Error

Question No: 28

DIRECTIONS for the question: Mark the best option:
What will be the output of following Code Snippets?

```
#include
int main()
{
char c[] = "ABA";
int i;
for (i = 0; c[i]; i++) {
printf("%c%c%c%c", c[i], *(c + i), *(i + c), i);
}
return (0);
}
```

- ☒ AAAABBBBAAAA
- ☐ Compile Time Error
- ☐ ABA
- ☐ AABBA

Question No: 29

DIRECTIONS for the question: Mark the best option:

```
main ( )
{
char ch = 'A';
while (ch<='F') {
switch(ch) {
case 'A': case 'B': case 'C' : case 'D' :
ch++; continue;
case 'E' : case 'F': ch++;
}
putchar(ch);
}
```

}

What will be the output of the above program?

- ☐ ABCDEF will be displayed
- ☒ FG will be displayed
- ☐ EFG will be displayed
- ☐ EF will be displayed

Question No: 30

DIRECTIONS for the question: Mark the best option:
Consider the following program,

```
main ( )  
{  
int x = 0,i, j;  
for ( i=0,j=10; i < 5, j > 0; i +=2, j-- )  
++x;  
printf('%d', x);  
}
```

What will be the output of the above program will be

- ☒ 10
- ☐ 5
- ☐ 0
- ☐ 11