A1_CLXII_CS(2021-22)

Date : 28/09/2021   Max Marks : 35

Class : XII   Subject : Computer Science   Time : 1 1/2 Hours

The respondent's email (**null**) was recorded on submission of this form.

* Required

1. Email *

    _____

2. Name of the Student *

    _____

3. Class / Section *

    Mark only one oval.

    ◯ 12A

4. GR No *

    _____

Section A

GENERAL INSTRUCTIONS:

i. There are 35 questions.
ii. Each question carries one mark.
iii. All questions are compulsory.
iv. Choose only one answer from the options given below.

5. * 1 point

What possible outputs are expected to be displayed on screen at the time of execution of the program from the following code?

```
import random
AR = [20,30,40,50,60,70];
Lower =random.randint(1,3)
Upper =random.randint(2,4)
for K in range(Lower, Upper +1):
    print (AR[K], end = "#")
```

Mark only one oval.

- [ ] 20#30#40#
- [ ] 50#60#70#
- [ ] 30#40#50#
- [ ] 40#50#70#

6. * 1 point

Identify the invalid identifiers from the following:

Mark only one oval.

- [ ] _ismarried
- [ ] YOGESH125
- [ ] RollNo
- [ ] Grade-Pay

7. * 1 point

Guess the output of the following code?
x, y, z = 10, 20, 30   #Statement 1
z, y, x = x+1, z+10, y-10
print(x, y, z)

Mark only one oval.

- [ ] 10 40 11
- [ ] 11 21 11
- [ ] 30 40 11
- [ ] 10 21 11

8. *   1 point

Identify the odd one out from the following:

Mark only one oval.

◯ and

◯ :

◯ <<

◯ **

9. *   1 point

Identify errors in the following code (if any) and correct the code by rewriting it with corrections.

Score = Float(input("Enter Initial Score: "))   #Line 1
for K in range (10, 50, 8)   #Line 2
        Score = Score + K   #Line 3
print("Final Score = ", Score)   #Line 4

Option A

Line 1: Score = Float(Input("Enter Initial Score : "))
Line 2: for K in range {10, 50, 8}:

Option B

Line 1: Score = float(input("Enter Initial Score : "))
Line 2: for K in range (10, 50, 8):

Option C

Line 1: Score = Float(Input("Enter Initial Score : "))
Line 2: for K in range (10, 50, 8):

Option D

Line 1: Score = float(input("Enter Initial Score : "))
Line 2: for K in range [10, 50, 8]

Mark only one oval.

◯ Option A

◯ Option B

◯ Option C

◯ Option D

How many times will the following loop executes?

A, B = 80, 20
for I in range (B, 100, 25):
    A += B
    print("Value I = ", I)
print("Final I = ", I)

Mark only one oval.

○ 3 times

○ 5 times

○ 4 times

○ 2 times

Convert the following while loop into for loop:

Sum, K = 0, 40

while K < 75:

      Sum = Sum + K

      K += 8

print("Final Result = ", Sum)

Mark only one oval.

```
Sum = 0
for K in range(40, 75, 8)
        Sum = Sum + K
print("Final Result = ", Sum)
```

Option 1

```
Sum = 0
for K in range[40, 75, 8]:
        Sum = Sum + K
print("Final Result = ", Sum)
```

Option 2

```
Sum = 0
for K in range(40, 75, 8):
Sum = Sum + K
print("Final Result = ", Sum)
```

Option 3

```
Sum = 0
for K in range(40, 75, 8):
        Sum = Sum + K
print("Final Result = ", Sum)
```

Option 4

12. *   1 point

Predict the Output:

L1 = [45,72,18,36,45,16,54,45,18,72]
print(L1.count(45) * L1.index(18))

Mark only one oval.

- 6
- 9
- 18
- 27

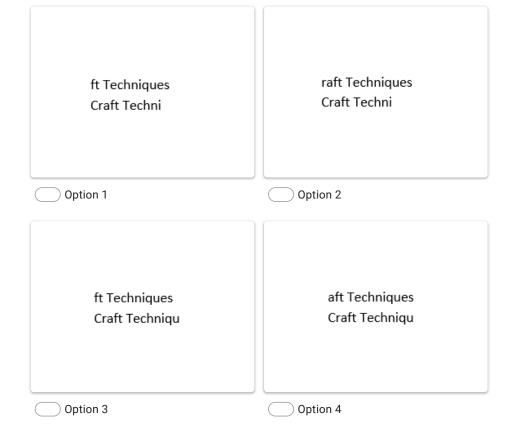13. *   1 point

What will be the output of the following code fragment?
STR1 = "Craft Techniques"
print(STR1.lstrip("rCa"))
print(STR1.rstrip("eqs"))

Mark only one oval.

ft Techniques
Craft Techni

Option 1

raft Techniques
Craft Techni

Option 2

ft Techniques
Craft Techniqu

Option 3

aft Techniques
Craft Techniqu

Option 4

14. * 1 point

Predict the output of the following program:

Company = {'Apple':57411, 'SoftBank Group':47053, "I & C China":45783, "Microsoft":44281}

Company.update({"Microsoft":44350, "Berkshire Hathway": 42521, "Apple" : 57635})

print(Company)

Mark only one oval.

( ) {'Apple': 57411, 'SoftBank Group': 47053, 'I & C China': 45783, 'Microsoft': 44350, 'Berkshire Hathway': 42521}

( ) {'Apple': 57635, 'SoftBank Group': 47053, 'I & C China': 45783, 'Microsoft': 44350, 'Berkshire Hathway': 42521}

( ) {'Apple': 57635, 'SoftBank Group': 47053, 'I & C China': 45783, 'Microsoft': 44281, 'Berkshire Hathway': 42521}

( ) {'Apple': 57411, 'SoftBank Group': 47053, 'I & C China': 45783, 'Microsoft': 44281, 'Berkshire Hathway': 42521}

15. * 1 point

_____ are the value(s) provided in function call / invoke statements.

Mark only one oval.

( ) Formal arguments

( ) Default arguments

( ) Variable Length arguments

( ) Actual arguments

16. * 1 point

The first line of the function definition is called _____.

Mark only one oval.

( ) Function prototype

( ) Function startup

( ) Function header

( ) Function declaration

17.   *   1 point

Which of the following statement is incorrect in the concept of Functions in Python?

Mark only one oval.

  ◯ An argument list must first contain keyword arguments followed by positional arguments

  ◯ The concept of Keyword arguments allows to call a function with arguments in any order using name of the arguments.

  ◯ You cannot specify a value for an argument more than once.

  ◯ All are correct.

18.   *   1 point

When we execute the python program, if identifier name like pi (π) is not existing in Global environment, it will move to _____ for checking its existence.

Mark only one oval.

  ◯ Local Environment

  ◯ Built – in Environment

  ◯ Enclosing Environment

  ◯ Main module

Predict the output of the following code fragment in Python.

```python
def CheckNow ():
        val1 = 200
        global val2
        val2 = 500
        print(val1, val2)
val1, val2 = 20, 50
print(val1, val2)
CheckNow()
print(val1, val2)
```

Mark only one oval.

20 50
20 500
20 500

Option 1

20 50
200 500
20 500

Option 2

20 50
200 500
200 500

Option 3

20 50
200 50
200 50

Option 4

What will be the output of the following code?

```
def MyFun(Quotes, N = 4):

        print(Quotes * N)

MyFun('Be Fearless ', 2)

MyFun('Enjoy ')
```

Mark only one oval.

Be Fearless Be Fearless

EnjoyEnjoyEnjoyEnjoy

○ Option 1

Be FearlessBe Fearless

Enjoy TodayEnjoy Today

○ Option 2

Be Fearless Be Fearless

Enjoy Enjoy Enjoy Enjoy

○ Option 3

Be Fearless Be Fearless Be Fearless Be Fearless

Enjoy Enjoy Enjoy Enjoy

○ Option 4

21. *

Which Line Number of the Code will never execute?

```
def Inspect(Num):                          #Line 1
        if Num % 2 == 0:                   #Line 2
                print("Welcome")           #Line 3
                return True                #Line 4
                print("Visit Again")       #Line 5
        else:                              #Line 6
                return False               #Line 7
Result = Inspect(50)
Result = Inspect(25)
print(Result)
```

Mark only one oval.

◯ Line 4

◯ Line 6

◯ Line 7

◯ Line 5

Keerthi a python programmer is working on a project, for some requirement, she has to define a function with name CalculateInterest(), she defined it as:

```
def CalculateInterest(Principal, Rate = 0.6, Time):
        return Principal * Rate * Time
```

But this code is not working, Can you help Keerthi to identify the error in the above function and what is the solution?

Option A
Error: Yes. Non default argument is followed by default argument
Solution: To put Rate as last argument:
def CalculateInterest(Principal, Time, Rate = 0.6):

Option B
Error: Yes. Non-default argument is followed by default argument
Solution: Give any default value to Time
def CalculateInterest(Principal, Rate = 0.6, Time = 5):

Option C
Option A or Option B

Option D
Error: Yes. Default argument is followed by Non-default argument
Solution: To put Rate as first argument:
def CalculateInterest(Rate = 0.6, Principal, Time):

Mark only one oval.

⚪ Option A
⚪ Option B
⚪ Option C
⚪ Option D

23. *

Predict the output of the following code segment:

```
def Fun1(a, b = 25):
    print(a * b)
def Fun2(a, b = 20):
    return a - b


P = Fun1(50)
Q = Fun2(100, 40)
print(P,Q)
```

Mark only one oval.

1250 None 60	1250 None 60
Option 1	Option 2
1250 None 60	1250 60
Option 3	Option 4

What will be the output of the following code?

```
def Alter(M, N=50):
    M = M + N
    N = M - N
    print(M, "@", N)
    return M


A, B=200, 100
A = Alter(A, B)
print(A,"#",B)
B = Alter(B)
print(A,"@",B)
```

Mark only one oval.

300 @ 200
300 # 100
150 @ 100
300 @ 150

Option 1

300 @ 200
300 # 200
150 # 100
300 @ 150

Option 2

300 @ 200
300 # 100
150 @ 100
350 @ 150

Option 3

300 @ 200
300 # 100
150 @ 100
350 @ 100

Option 4

25. *

In _____ mode, a File must exist, otherwise Python raises I/O errors.

Mark only one oval.

- ⬭ 'w' – write only
- ⬭ 'a' - append
- ⬭ 'w+' – write and read
- ⬭ 'r' – read only

What will be the output of the following code fragment if a file "MyPride.txt" has the following contents?
India is my country and all Indians are my brothers and sisters.
I love my country and
I am proud of its rich and heritage

```
myfile=open("MyPride.txt","r")
str1=myfile.read(20)
str2=myfile.read(15)
str3=myfile.read()
print("Output 1:")
print(str1)
print("Output 2:")
print(str2)
print("Output 3:")
print(str3)
```

Mark only one oval.

Output 1: India is my country
Output 2: and all indians
Output 3: are my brothers and sisters.
I love my country and
I am proud of its rich and heritage

○ Option 1

Output 1:
India is my country
Output 2:
and all indians
Output 3:
   are my brothers and sisters.
I love my country and
I am proud of its rich and heritage

○ Option 2

Output 1:
India is my countr
Output 2:
y and all indian
Output 3:
s are my brothers and sisters.
I love my country and
I am proud of its rich and heritage

○ Option 3

Output 1: India is my countr
Output 2: y and all indian
Output 3: s are my brothers and sisters.
I love my country and
I am proud of its rich and heritage

○ Option 4

27. *

1 point

_____ function is used to force python to write the content of buffer onto storage.

Mark only one oval.

◯ dump()

◯ load()

◯ flush()

◯ writelines()

28. *

1 point

To open a file "C:\\MyFolder\\Seminar.txt" for both read and write mode and if file exists data will be truncated, we use: _____.

Mark only one oval.

◯ F1 = open("C:\\MyFolder\\Seminar.txt", "r+")

◯ F1 = open("C:\\MyFolder\\Seminar.txt", "a+")

◯ F1 = open("C:\\MyFolder\\Seminar.txt", "w+")

◯ F1 = open("C:\\MyFolder\\Seminar.txt", "rw")

29. *

1 point

Filehandle.readlines() reads all lines in a file and returns them in a _____.

Mark only one oval.

◯ Dictionary

◯ Tuple

◯ List

◯ Strings

30.   *   1 point

In Binary file operations _____ is used to convert the byte stream back to the original format.

Mark only one oval.

( ) dumping

( ) unpickling

( ) pickling

( ) flushing

31.   *   1 point

In Binary file _____ mode is used to place the file pointer at the end of the files otherwise creates a new file.

Mark only one oval.

( ) ab+

( ) wb+

( ) rb+

( ) w+

32. *

Consider a binary file "EMP.dat" with the following contents:

    101, 'Rahul', 'Clerk', 1300.0
    102, 'Sneha', 'HRD', 3400.0
    103, 'Vinoth', 'Purchase', 1900.0
What will be the output of the following code fragment?

```
def SalAvgLess(Salary):
        f=open("EMP.dat", "rb+")
        count, Sum = 0, 0
        try:
                while True:
                        pos = f.tell()
                        rec = pickle.load(f)
                        if float(rec[3]) < Salary:
                                count = count + 1
                                Sum = Sum + float(rec[3])
        except EOFError:
                f.close()
        Avg = Sum / count
        print("Average Salary of Employees with Less than ", Salary, " = ", Avg)

SalAvgLess(2000)
```

Mark only one oval.

- ( ) Average Salary of Employees with Less than 2000 = 2200
- ( ) Average Salary of Employees with Less than 2000 = 2200.0
- ( ) Average Salary of Employees with Less than 2000 = 1600.0
- ( ) Average Salary of Employees with Less than 2000 = 1600

33. *

Ms. Veena is working on a binary file and wants to write data from a list to a binary file. Consider list object as List1, binary file MyBinFile.dat, and file object as f. Which of the following can be the correct statement for her?

Mark only one oval.

- ( ) f = open('MyBinFile.dat','wb') pickle.dump(List1, f)
- ( ) f = open('MyBinFile.dat','rb') List1=pickle.dump()
- ( ) f = open('MyBinFile.dat','wb') pickle.load(List1, f)
- ( ) f = open('MyBinFile.dat','rb') List1=pickle.load(f)

34. *   1 point

_____ module is required to use dump() and load() methods in Binary files.

Mark only one oval.

( ) matplotlib

( ) csv

( ) pickle

( ) pandas

35. *   1 point

Consider the following code segment Answer the Questions given below:
```
import _____                                    #Line1
#Line2 to open the file for writing record at the end (Adding a new row)
F=open("Customer.csv", _____newline="\n")
dt = writer(F)
while True:
    sno= int(input("Enter Serial No:"))
    cust_name = input("Enter customer name:")
    city = input("Enter city:")
    amt = int(input("Enter amount:"))
    dt._____([sno, cust_name, city, amt])      #Line3 to write a row or record
    print("Record has been added.")
    print("Want to add more record? Type YES!!!")
    ch = input()
    ch = ch.upper()
    if ch=="YES":
        print("****************************")
    else:
        break
f._____                                         #Line4 to close the file
record = list()
with open('Customer.csv', _____) as f:            #Line5 to open file for read operation
data = csv.reader(f)
for row in data:
    print(row)
```

Fill in the blank in Line1

Mark only one oval.

( ) CSV

( ) Csv

( ) csv

( ) csv_file

36.   *   1 point

Consider the following code segment Answer the Questions given below:
import _____   #Line1
#Line2 to open the file for writing record at the end (Adding a new row)
F=open("Customer.csv", _____newline="\n")
dt = writer(F)
while True:
        sno= int(input("Enter Serial No:"))
        cust_name = input("Enter customer name:")
        city = input("Enter city:")
        amt = int(input("Enter amount:"))
        dt._____([sno, cust_name, city, amt])   #Line3 to write a row or record
        print("Record has been added.")
        print("Want to add more record? Type YES!!!")
        ch = input()
        ch = ch.upper()
        if ch=="YES":
                print("**************************")
        else:
                break
    f._____   #Line4 to close the file
    record = list()
    with open('Customer.csv', _____) as f: #Line5 to open file for read operation
    data = csv.reader(f)
    for row in data:
        print(row)

        Fill in the blank in Line2

Mark only one oval.

⬭ 'a'

⬭ 'w'

⬭ 'r'

⬭ 'ab'

37. *   1 point

Consider the following code segment Answer the Questions given below:
import _____   #Line1
#Line2 to open the file for writing record at the end (Adding a new row)
F=open("Customer.csv", _____newline="\n")
dt = writer(F)
while True:
    sno= int(input("Enter Serial No:"))
    cust_name = input("Enter customer name:")
    city = input("Enter city:")
    amt = int(input("Enter amount:"))
    dt._____([sno, cust_name, city, amt])   #Line3 to write a row or record
    print("Record has been added.")
    print("Want to add more record? Type YES!!!")
    ch = input()
    ch = ch.upper()
    if ch=="YES":
        print("*************************")
    else:
        break
f._____   #Line4 to close the file
record = list()
with open('Customer.csv', _____) as f: #Line5 to open file for read operation
data = csv.reader(f)
for row in data:
    print(row)

Fill in the blank in Line3

Mark only one oval.

◯ write

◯ writerow

◯ addrow

◯ append

38. *

Consider the following code segment Answer the Questions given below:

```
import _____                              #Line1
#Line2 to open the file for writing record at the end (Adding a new row)
F=open("Customer.csv", _____newline="\n")
dt = writer(F)
while True:
    sno= int(input("Enter Serial No:"))
    cust_name = input("Enter customer name:")
    city = input("Enter city:")
    amt = int(input("Enter amount:"))
    dt._____([sno, cust_name, city, amt])     #Line3 to write a row or record
    print("Record has been added.")
    print("Want to add more record? Type YES!!!")
    ch = input()
    ch = ch.upper()
    if ch=="YES":
        print("**************************")
    else:
        break
f._____                              #Line4 to close the file
record = list()
with open('Customer.csv', _____) as f:      #Line5 to open file for read operation
data = csv.reader(f)
for row in data:
    print(row)
```

Fill in the blank in Line4

Mark only one oval.

◯ f.exit()

◯ f.flush()

◯ f.quit()

◯ f.close()

39. * 1 point

Consider the following code segment Answer the Questions given below:

```
import _____                              #Line1
#Line2 to open the file for writing record at the end (Adding a new row)
F=open("Customer.csv", _____newline="\n")
dt = writer(F)
while True:
    sno= int(input("Enter Serial No:"))
    cust_name = input("Enter customer name:")
    city = input("Enter city:")
    amt = int(input("Enter amount:"))
    dt._____([sno, cust_name, city, amt])      #Line3 to write a row or record
    print("Record has been added.")
    print("Want to add more record? Type YES!!!")
    ch = input()
    ch = ch.upper()
    if ch=="YES":
        print("**************************")
    else:
        break
f._____                                   #Line4 to close the file
record = list()
with open('Customer.csv', _____) as f:      #Line5 to open file for read operation
data = csv.reader(f)
for row in data:
    print(row)
```

Fill in the blank in Line5

Mark only one oval.

◯ 'ra'

◯ 'rw'

◯ 'r'

◯ 'a'