

Class – XII
Session 2021-22
Computer Science (083)
Periodic Test – I Paper

Maximum Marks : 50

Time Allowed :1:30 hours

General Instruction:

1. The examination will comprise of Objective type Multiple Choice Questions (MCQs)
2. All questions are compulsory
3. Each question carries one mark.
4. There will be no negative marking for the wrong answers
5. Only one answer is correct per numbered item

Question : Vishal is a software developer with a reputed firm. He has been given the task to computerize the operations for which he is developing a firm which will accept customer data as follows: The data to be entered is: Name, Age, Items Bought, Total Amount.

Q.1 Choose the most appropriate data type to store the above information in the given sequence.

- | | |
|------------------------------------|---------------------------------------|
| a. string, tuple, float, integer | b. string, integer, dictionary, float |
| c. string, integer, integer, float | d. string, integer, list, float |

Q.2 Now the data of each customer needs to be organized in such that the items bought followed by the item price.

- | | | | |
|---------|---------------|----------------------|----------|
| a. List | b. Dictionary | c. Nested Dictionary | d. Tuple |
|---------|---------------|----------------------|----------|

Q.3 Now to calculate total bill amount of customers, Vishal can use which data type to store the sum.

- | | | | |
|------------|----------|---------|----------|
| a. Integer | b. Float | c. List | d. Tuple |
|------------|----------|---------|----------|

Q.4 In order to calculate the total bill amount for 15 customers, Vishal

Statement 1. Must use a variable of the type float to store the sum.

Statement 2. May use a loop to iterate over the values

- a. Both statements are correct.
- b. Statement 1 is correct, but statement 2 is not.
- c. Both statements are incorrect.
- d. Statement 1 is incorrect but statement 2 is correct.

Q.5 Vishal wants to update name of the customer in list. Which function from the given option can be used.

```
L=["Mayank", 18]
```

a. L[0]= "Ajay"

b. update("Ajay")

c. L[1]= "Ajay"

d. L[0]=update("Ajay")

Question :

```
print("Enter Marks Obtained in 5 Subjects: ")
markOne = int(input())
markTwo = int(input())
markThree = int(input())
markFour = int(input())
markFive = int(input())
tot = markOne+markTwo+markThree+markFour+markFive
avg = tot/5
if avg>=91 and avg<=100:
    print("Your Grade is A1")           #Statement 1
elif avg>=81 and avg<91:
    print("Your Grade is A2")         #Statement 2
elif avg>=71 and avg<81:
    print("Your Grade is B1")         #Statement 3
elif avg>=61 and avg<71:
    print("Your Grade is B2")
elif avg>=51 and avg<61:
    print("Your Grade is C1")
elif avg>=41 and avg<51:
    print("Your Grade is C2")
elif avg>=33 and avg<41:
    print("Your Grade is D")
elif avg>=21 and avg<33:
    print("Your Grade is E1")
elif avg>=0 and avg<21:
    print("Your Grade is E2")
else:
    print("Invalid Input!")           #Statement 4
```

On the basis of the above code, choose the correct option which will be executed when different inputs are given.

Q.6 If markOne,markTwo,markThree,markFour=100,97,82,85 and markFive="Nil" then total will be

- a. 364 b. 0 c. Syntax Error d. TypeError

Q.7 If avg="Nil" then which statement will execute.

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4

Q.8 If markOne,markTwo,markThree,markFour,markFive=100,95,90,80,85 then which statement will execute.

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4

Q.9 If markOne,markTwo,markThree,markFour,markFive=100,83,92,80,100 then which statement will execute.

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4

Q.10 If avg=81, then which statement will execute.

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4

Question : Ram is looking for his dream job but has some restrictions. He loves Delhi and would take a job there if he is paid over Rs.40,000 a month. He hates Chennai and demands at least Rs. 1,00,000 to work there. In any another location he is willing to work for Rs. 60,000 a month. The following code shows his basic strategy for evaluating a job offer. Code:

```
pay= _____
location= _____
if location == "Mumbai":
    print ("I'll take it!")           #Statement 1
elif location == "Chennai":
    if pay < 100000:
        print ("No way")           #Statement 2
    else:
        print("I am willing!")     #Statement 3
elif location == "Delhi" and pay > 40000:
    print("I am happy to join")    #Statement 4
elif pay > 60000:
    print("I accept the offer")    #Statement 5
else:
    print("No thanks, I can find something better") #Statement 6
```

On the basis of the above code, choose the right statement which will be executed when different inputs for pay and location are given.

Q.11 Input: location = "Chennai", pay = 50000

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4

Q.12 Input: location = "Chennai", pay = 150000

- a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 6

Q.13 Input- location = "Any Other City", pay = 1

- a. Statement 1 b. Statement 2 c. Statement 4 d. Statement 6

Q.14 Input location = "Delhi", pay = 400000

- a. Statement 6 b. Statement 5 c. Statement 4 d. Statement 3

Q.15 Input- location = "Lucknow", pay = 70000

- a. Statement 2 b. Statement 3 c. Statement 4 d. Statement 5

Question : Naman prepare a code for different conditions and take different inputs in variable str1. What will be the output for the different inputs given below:

```
str1="_____"
```

```
str2=""
```

```
I=0
```

```
while I<len(str1):
```

```
    if str1[I]>="A" and str1[I]<="M":
```

```
        str2=str2+str1[I+1]
```

```
    elif str1[I]>="0" and str1[I]<="9":
```

```
        str2=str2+str1[I-1]
```

```
    else:
```

```
        str2=str2+"*"
```

```
    I=I+1
```

```
print(str2)
```

Q.16 If input will be str1= "Exam2021" then output will be

- a. X***M202 b. X**M2021
c. x***m201 d. x***m202

Q.17 If input will be str1= "CBSE-Exam" then output will be

- a. Bs*-*x*** b. BS*-*x***
c. BS*-*x** d. BS**-*x**

Q.18 If input will be str1= "PT1" then output will be

- a. **T b. *T* c. T** d. **t

Q.19 If input will be str1= "ABCD" then output will be

- a. BCD b. BCD* c. ABCD d. Error : String index out of range

Q.20 If input will be str1= "xyza" then output will be

- a. **A b. ***A c. *xyz d. Error : String index out of range

Question : If a user change its passing parameter of function calling display().
What will be the output of the following code.

```
def display(a):  
    a1=""  
    for i in range(0,len(a)):  
        if(a[i].isspace()):  
            a1=a1+"*"  
        elif(a[i].isdigit()):  
            a1=a1+"&"  
        elif(a[i].isalpha()):  
            a1=a1+a[i].upper()  
    print(a1)  
display("_____")
```

Q.21 If passing parameter will be "Python", then output will be

- a. PYTHON b. Python c. python d. None of these

Q.22 If passing parameter will be "Exam2021", then output will be

- a. Exam&&&& b. EXAM**** c. EXAM&&&& d. Exam****

Q.23 If passing parameter will be "PT1", then output will be

- a. pt& b. PT* c. Pt& d. PT&

Question : Assume, you are given two lists: a = [1,2,3,4,5] b = [6,7,8,9]
The task is to create a list which has all the elements of a and b in one dimension.

Q.24 If Output : a = [1,2,3,4,5,6,7,8,9] , Which of the following option would you choose?

- a. a.append(b) b. a.extend(b) c. Any of the above d. None of these

Q.25 If Output : `a = [1,2,3,4,5,[6,7,8,9]]` , Which of the following option would you choose?

- a. `a.append(b)` b. `a.extend(b)` c. Any of the above d. None of these

Question: Suppose you are defining a tuple given below: `tup = (1, 2, 3, 4, 5)`

Q.26 You want to update the value of this tuple at 2nd index to 10. Which of the following option will you choose?

- a. `tup(2) = 10` b. `tup[2] = 10` c. `tup{2} = 10` d. None of these

Q.27 You want to check the index of value 5. Which of the following option will you choose?

- a. `tup.index(5)` b. `tup=index(5)` c. `tup.index(4)` d. `tup=index(4)`

Q.28 You want to check the minimum value of tup. Which of the following option will you choose?

- a. `min=tup()` b. `tup=min(1)` c. `tup=min()` d. `min(tup)`

Q.29 You want to check the length of tup. Which of the following option will you choose?

- a. `len.tup` b. `len(tup)` c. `len=tup` d. None of these

Q.30 You want to delete tup. Which of the following option will you choose?

- a. `delete(tup)` b. `remove(tup)` c. `del tup` d. `tup.remove()`

Q.31 Which of the following function headers is correct?

- a. `def f(a=1,b):` b. `def f(a=1,b,c=2):`
c. `def f(a=1,b=1,c=2):` d. `def f(a=1,b=1,c=2,d):`

Q.32 Which of the following function calls will cause Error while invoking/calling the below function definition?

- ```
def test(a,b,c,d)
```
- a. `test(1,2,3,4)`    b. `test(4,5,6,7)`  
c. `test(a=1,b=2,c=3,d=4)`    d. `test(a=1,2,3,4)`

Q.33 Which of the following function calls can be used to invoke/calling the below function definition?

- ```
def test(a,b,c,d)
```
- a. `test(1,2,3,4)` b. `test(a=1,2,3,4)`
c. `test(a=1,b=2,c=3,4)` d. `test(a=1,b=2,3,4)`

Q.34 What is a variable defined outside all the function referred to as?

- a. A static variable
- b. A global variable
- c. A local variable
- d. An automatic variable

Q.35 What is a variable defined inside a function referred to as?

- a. A static variable
- b. A global variable
- c. A local variable
- d. An automatic variable

Q.36 What will be the output of the following python code:

```
a=10
def call():
    global a
    a=15
    b=20
    print(a)
call()
```

- a. 15
- b. 20
- c. None
- d. None of these

Q.37 What is the output of the following code?

```
a=10
def func():
    a=20
func()
print(a)
```

- a. 10
- b. 20
- c. None
- d. None of these

Question : Consider the following python code:

```
def Add(x,y,z):
    print(x+y+z)
Add(10,20,30)          #Invoke 1
Add(x=20,y=40,z=60)   #Invoke 2
```

Q.38 Which type of argument used in #Invoke 1?

- a. Positional Argument
- b. Default Argument
- c. Keyword Argument
- d. Variable length Argument

Q.39 Which type of argument used in #Invoke 2?

- a. Positional Argument
- b. Default Argument
- c. Keyword Argument
- d. Variable length Argument

Q.40 What will be the output of following code:

```
def func(a=10,b=20):  
    return a+b  
func(a=1,b=2)
```

- a. 30 b. 3 c. No Output d. None of these

Q.41 What will be the output of following code:

```
def func(a=10,b=20):  
    return a+b  
print(func(a=1,b=2))
```

- a. 30 b. 3 c. No Output d. None of these

Q.42 What will be the output of the following code:

```
def calc(x):  
    r=2*x**2  
    return r  
print(calc(2))
```

- a. 8 b. 16 c. 20 d. No output

Q.43 What will be the output of the following expression:

```
>>> 5//20
```

- a. 5 b. 20 c. 4 d. 0

Q.44 What will be the output of the following expression:

```
>>> 50//6
```

- a. 50 b. 6 c. 0 d. 8

Q.45 What will be the output of the following expression:

```
>>> 20%5
```

- a. 0 b. 4 c. 5 d. 20

Q.46 What will be the output of the following expression:

```
>>> 6%30
```

- a. 0 b. 6 c. 30 d. 5

Q.47 What will be the output of the following expression:

```
>>> (50/5**2)
```

- a. 2.0 b. 2 c. 100.0 d. 100

Q.48 Which of the following is an invalid variable?

- a. hello_1 b. hello21 c. Hello_234 d. 3Hello

Q.49 Which of the following is not a keyword?

- a. if b. nonlocal c. global d. local

Q.50 Which value type does input() return?

- a. Boolean b. String c. Int d. Float