Unit Test - I (2021-22)

Date : 26/05/2021   Max Marks : 30

Class : XII   Subject : Computer Science   Time : 1 Hour

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.

    ◯ 12 A

4. GR No *

    _____

Section A

> GENERAL INSTRUCTIONS:
>
> i. There are 28 questions. 2 Questions carries two mark each.
> ii. All questions are compulsory.
> iii. Choose only one answer from the options given below.
> iv. All the import / library modules are included where ever it required.

What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code?

```
import random
Arr = [20,30,40,50,60,70]
From = random.randint(1,3)
To = random.randint(2,4)
for k in range(From, To+1):
        print(Arr[k], end = "#")
```

(i) 10#40#70#   (ii) 50#60#70#
(iii) 30#40#50#   (iv) 40#50#70#

Mark only one oval.

⬭ i

⬭ ii

⬭ iii

⬭ iv

Write the output of the following python statements:

```
print( 35 - 4 ** 3 / 2 + 20)
print( 25>15 and 15<5 or not (50 > 25))
```

output:

a) 23.0   b)23   c) 14915.5   d) Error
    False   True   False   23

Mark only one oval.

⬭ a

⬭ b

⬭ c

⬭ d

7.   *

Can list be used as keys of a dictionary?
Which one is valid relational operator in python?
i) /   ii) =   iii)   = =   iv) and

output:
a)Yes   b)No   c)No   d)Depends
   ii)   iv)   iii)   i)

Mark only one oval.

○ a

○ b

○ c

○ d

8.   *

What is the length of the tuple shown below?
t=(((('a',1),'b', 'c'),'d',2),'e',3)

a)4   b)1   c)2   d)3

Mark only one oval.

○ a

○ b

○ c

○ d

9.   *

Find the output:
T1=(2,3,4,5,6,4,6,3,5)
print(T1.index(4))

i) 4   ii) 5   iii) 6   iv) 2

Mark only one oval.

○ i

○ ii

○ iii

○ iv

10. * 1 point

Which of the following can be used as valid variable identifiers in python?
i)4thSum   ii)Total   iii)Number#   iv)_Data

    a) i) and ii)   b) ii) and iii)   c) ii) and iv)   d) i) and iv)

Mark only one oval.

- a
- b
- c
- d

11. * 1 point

What will be the output of the following Python code snippet?

d1 = {"john":40, "peter":45}
d2 = {"john":41, "peter":45}
print (d1 == d2)

    a) True   b) Error   c) False   d) true

Mark only one oval.

- a
- b
- c
- d

12. * 1 point

What is displayed on screen?

d={"John":40, "peter":45, 50:"susan"}
print(d["susan"])

    a)susan   b)50   c)KeyError:'susan'   d) Syntax error:50

Mark only one oval.

- a
- b
- c
- d

13. *   1 point

Suppose list1 is [2, 33, 222, 14, 25], What is list1[:-1]?
a) [2, 33, 222, 14]
b) Error
c) 25
d) [25, 14, 222, 33, 2]

Mark only one oval.

a

b

c

d

14. *   1 point

What does 3 ^ 4 evaluate to?
a) 81
b) 12
c) 0.75
d) 7

Mark only one oval.

a

b

c

d

15. *   1 point

Which of the following mode will refer to binary data?
a) r
b) w
c) +
d) b

Mark only one oval.

a

b

c

d

16. * 1 point

Correct syntax of file.writelines() is?
a) file.writelines(sequence)
b) fileObject.writelines()
c) fileObject.writelines(sequence)
d) none of the mentioned

Mark only one oval.

○ a

○ b

○ c

○ d

17. * 1 point

In python, default EOL character is _____
Is there any delimiter of line in binary File?

a.\n   No
b.\n   Yes
c.\t   May be
d.\NN   yes
e. No   Yes

Mark only one oval.

○ a

○ b

○ c

○ d

○ e

18. *

Ms. Suman is working on a binary file and wants to write data from a list to a binary file. Consider list object as l1, binary file sum_list.dat, and file object as f. Which of the following can be the correct statement for her?

 a) f = open('sum_list.dat','wb')
    pickle.dump(l1,f)
 b) f = open('sum_list.dat','rb')
    l1=pickle.dump(f)
 c) f = open('sum_list.dat','wb')
    pickle.load(l1,f)
 d) f = open('sum_list','rb')
    l1=pickle.load(f)

Mark only one oval.

 a

 b

 c

 d

19. *

Guess the output
f=open("newest.txt","r")
print(f.name, f.mode, f.closed)
f.close()

 a) text file   read   False
 b) newest.txt   r   True
 c) newest.txt   r   False
 d) newest   read   No
 e) All are correct

Mark only one oval.

 a

 b

 c

 d

 e

20. *   2 points

Does the following binary file executes?   2 marks
import pickle
def createfile():
    fobj=open("Book.dat","ab")
    BookNo=int(input("Enter Book Number : "))
    Book_name=input("Enter book Name :")
    Author = input("Enter Author name: ")
    Price = int(input("Price of book : "))
    rec=[BookNo, Book_name ,Author, Price]
    pickle.dump(rec, fobj)
    fobj.close()

createfile()

a) works perfect without any error
b) No, gives error, while dumping
c) Book.dat file does not exist, so erroneous
d) binary file cannot be opened within the function

Mark only one oval.

a

b

c

d

21. *

Guess the output   2 Marks

```
def countrec(Author):
    f=open("Book.dat",'wb')
    fobj=open("Book.dat", "rb")
    num = 0
    try:
        while True:
            rec=pickle.load(fobj)
            if Author==rec[2]:
                num = num + 1
                print(rec[0],rec[1],rec[2],rec[3])
        except:
            fobj.close()
            return num

n=countrec("amit")
print("Total records", n)
```
a)Total records 1   b)Total records 0   c) Total records 2   d)Total records 3

Mark only one oval.

a

b

c

d

22. *

In regards to separated value files such as .csv what is the delimiter used?

a) Any character such as the comma (,) or tab (\t) that is used to separate the column data.
b) Delimiters are not used in separated value files
c)Any character such as the comma (,) or tab (\t) that is used to separate the row data
d)Anywhere the comma (,) character is used in the file.

Mark only one oval.

a

b

c

d

23. *   1 point

Which of the following items are present in the function header?

A. function name
B. parameter list
C. return value
D. Both A and B

Mark only one oval.

A

B

C

D

24. *   1 point

If return statement is not used inside the function, the function will return:

A. None
B. 0
C. Null
D. Arbitary value

Mark only one oval.

A

B

C

D

25. *   1 point

What is a recursive function?

A. A function that calls other function.
B. A function which calls itself.
C. Both A and B
D. None of the above

Mark only one oval.

A

B

C

D

26. *   1 point

Which of the following function headers is correct?

A. def fun(a = 2, b = 3, c)
B. def fun(a = 2, b, c = 3)
C. def fun(a, b = 2, c = 3)
D. def fun(a, b, c = 3, d)

Mark only one oval.

○ A

○ B

○ C

○ D

27. *   1 point

Guess the output:
def printMax(a, b):
    if a > b:
        print(a, 'is maximum')
    elif a == b:
        print(a, 'is equal to', b)
    else:
        print(b, 'is maximum')
printMax(3, 4)

a) 3
b) 4
c) 4 is maximum
d) None of the mentioned

Mark only one oval.

○ a

○ b

○ c

○ d

28.   *   1 point

What is the possible output?

```
x = 50
def func():
    global x
    print('x is', x)
    x = 2
    print('Changed global x to', x)
func()
print('Value of x is', x)
```

a)
x is 50
Changed global x to 2
Value of x is 50
b)
x is 50
Changed global x to 2
Value of x is 2
c)
x is 50
Changed global x to 50
Value of x is 50
d) None of the mentioned

Mark only one oval.

  ◯ a

  ◯ b

  ◯ c

  ◯ d

29.   *   1 point

What is the possible output?

```
a, b = c = 2 + 2, 'TutorialsPoint'
print(c)
```

a) (4, 'TutorialsPoint')
b) ('TutorialsPoint')
c) (4, 'TutorialsPoint',4)
d) (4, 4,'TutorialsPoint')
e) None

Mark only one oval.

  ◯ a

  ◯ b

  ◯ c

  ◯ d

  ◯ e

```
def calc(*n):
  s=10
  for i in n:
    s=s+i
  print(s)
calc(5,10,15)
```

a) 30   b)15   c)40   d) Error   e) None

Mark only one oval.

- a
- b
- c
- d
- e

```
Guess the output:
def pow(b, p):
  y = b ** p
  return y

def square(x):
  a = pow(x, 2)
  return a

n = 5
result = square(n)
print(result)
```

a)10   b) 5   c)25   d)5^2   e) Error

Mark only one oval.

- a
- b
- c
- d
- e

If, the following code works , what is the output?

```
def repeat_lyrics():
    pass
def repeat_lyrics():
    print_lyrics()
    print_lyrics()
def print_lyrics():
    print("I'm okay.")
    #print('I sleep all night and I work all day.')
repeat_lyrics()
```

a) Program compiles but no output.
b) I'm okay.
    I'm okay.
c) I'm okay. I'm okay.
d) Error

Mark only one oval.

◯ a

◯ b

◯ c

◯ d

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