


Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, July 2020	
Course: Programming with Python Program: B.Tech + CSE (IOT&SC) Course Code: CSAI1001	Semester: IV Time Max. Marks:
Instructions:	

This Test has 65 attempts. For information on editing questions, click **More Help** below. ✕

Test Canvas: CSAI1001 - Programming with Python-IOT

The Test Canvas lets you add, edit and reorder questions, as well as review a test. [More Help](#)

Question Settings

You can edit, delete or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

Description

All questions are compulsory.

Each questions carry equal marks.

Backtracking is prohibited.

Multiple attempts are not allowed.

time duration is 2 hours.

Instructions

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Total Questions 60

Total Points 60

Number of Attempts 65

Select: All None Select by Type:

Delete and Regrade

Points

Update and Regrade

Hide Question Details

← **OK**
P

1. Multiple Choice: 1: What will be th...**Question**

What will be the output of the following code :
print type(type(int))

Answer

type 'int'



type 'type'

error

0

 2. Multiple Choice: 2: What is the out...

Points: 1

Question

What is the output of the following program :
y = 8
z = lambda x : x * y
print z(6)

Answer

14

64



48

None of the above



Points: 1

3. Multiple Choice: 3: Which function ...**Question**

Which function overloads the >> operator?

Answer

more()

gt()

ge()

None of the above

 4. Multiple Choice: 4: Which operator ...Points: **1****Question**

Which operator is overloaded by the or() function?

Answer

||

|

//

/

 5. Multiple Choice: 5: What is the out...Points: **1****Question**

What is the output of the following program :

```
i = 0
while i < 3:
    print i
    i++
    print i+1
```

Answer

Error

21324

12345

102435

6. Multiple Choice: 6: What is the out...

Points: 1

Question

What is the output of the following program :
print 0.1 + 0.2 == 0.3

Answer

True

False

Machine Independent

Error

7. Multiple Choice: 7: Given a string ...

Points: 1

Question

Given a string s = "Welcome", which of the following code is incorrect?

Answer

print s[0]

print
s.lower()

s[1] = 'r'

print
s.strip()

8. Multiple Choice: 8: To start Python...

Points: 1

Question

To start Python from the command prompt, use the command _____

Answer

execute
python



python

go python

run
python

 9. Multiple Choice: 9: Which of the fo...

Points: 1

Question

Which of the following is correct about Python?

Answer

It supports
automatic
garbage
collection.

It can be
easily
integrated
with C,
C++, COM,
ActiveX,
CORBA,
and Java



Both of
the above

None of the above

10. Multiple Choice: 10: What data type ...

Points: 1

Question

What data type is the object below ? L = [1, 23, 'hello', 1]

Answer

Dictionary

List

Tuple

Array

11. Multiple Choice: 11: Which of the fo...

Points: 1

Question

Which of the following function convert a string to a float in python?

Answer

int(x
[,base])

long(x
[,base])

str(x)

float(x)

12. Multiple Choice: 12: Which of the fo...

Points: 1

Question

Which of the following statement(s) is TRUE?

1. A hash function takes a message of arbitrary length and generates a fixed length code.
2. A hash function takes a message of fixed length and generates a code of variable length.
3. A hash function may give the same hash value for distinct messages.

Answer

I only

II and III only

I and III only

II only

 13. Multiple Choice: 13: What is the out...Points: **Question**

What is the output of the following program :

```
def myfunc(a):  
    a = a + 2  
    a = a * 2  
    return a  
  
print myfunc(2)
```

Answer

8

16

Runtime Error

Indentation Error

 14. Multiple Choice: 14: Predict the out...Points:

Question

Predict the output of following python programs:

```
r = lambda q: q * 2
s = lambda q: q * 3
x = 2
x = r(x)
x = s(x)
x = r(x)
print x
```

Answer

12

 24 36 54 **15. Multiple Choice: 15: Predict the out...**Points: **Question**

Predict the output of following python programs:

```
count = 1
def doThis():
    global count
    for i in (1, 2, 3):
        count += 1
doThis()
print count
```

Answer

3

 4 2 1 **16. Multiple Choice: 16: Predict the out...**Points:

Question

Predict the output of following python programs:

```
for i in range(1,2):  
    print i  
for i in range(4,6):  
    print i
```

Answer

1245

145

12456

None fo the above

 17. Multiple Choice: 17: Predict the out...Points: **Question**

Predict the output of following python programs:

```
nameList = ['Harsh', 'Pratik', 'Bob', 'Dhruv']  
print nameList[1][-1]
```

Answer

b

v

k

h

 18. Multiple Choice: 18: Predict the out...Points:

Question

Predict the output of following python programs:

```
class A(object):
    val = 1
class B(A):
    pass
class C(A):
    pass
print A.val, B.val, C.val
B.val = 2
print A.val, B.val, C.val
A.val = 3
print A.val, B.val, C.val
```

Answer

```
1 1 1
1 2 1
3 2 3
```

```
1 1 1
1 3 1
3 4 3
```

```
1 1 2
1 3 1
3 4 5
```

```
2 1 2
2 3 1
3 4 5
```

19. Multiple Choice: 19: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
list1 = [1, 2, 3, 4, 5]
list2 = list1
list2[0] = 0;
print "list1= : ", list1 #statement 2
```

Answer

```
list1= : [1,  
2, 3, 4, 5]
```



```
list1= : [0,  
2, 3, 4, 5]
```

```
list1= :  
[1, 2, 3, 5,  
6]
```

```
list1= :  
[1, 2, 4, 5,  
6]
```

 20. Multiple Choice: 20: Predict the out...Points: 1**Question**

Predict the output of following python programs:

```
d1 = [10, 20, 30, 40, 50]  
d2 = [1, 2, 3, 4, 5]  
print d1 - d2
```

Answer

1020304050

12345

No
Output

Error

 21. Multiple Choice: 21: Predict the out...Points: **1****Question**

Predict the output of following python programs:

```
list = ['a', 'b', 'c', 'd', 'e']  
print list[10:]
```

Answer

e

edcba



[]

None of the above

22. Multiple Choice: 22: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
dictionary1 = {'GFG' : 1,  
              'Google' : 2,  
              'GFG' : 3  
              }  
print(dictionary1['GFG']);
```

Answer

Compilation
error due to
duplicate
keys

Runtime
time error
due to
duplicate
keys

3

1

23. Multiple Choice: 23: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
temp = dict()
temp['key1'] = {'key1' : 44, 'key2' : 566}
temp['key2'] = [1, 2, 3, 4]
for (key, values) in temp.items():
    print(values, end = "")
```

Answer

Compilation Error

Runtime Error



```
{'key1':
44,
'key2':
566}[1, 2,
3, 4]
```

None of
the above

 24. Multiple Choice: 24: Predict the out...

Points: **1**

Question

Predict the output of following python programs:

```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)
    i += 1
```


Answer

1

2

3

 No output **25. Multiple Choice: 25: Predict the out...**Points: **Question**

Predict the output of following python programs:

```
import threading
class thread(threading.Thread):
    def init_(self, thread_ID):
        self.thread_ID = thread_ID
    def run(self):
        print(self.thread_ID)
thread1 = thread(100)
thread1.start()
```

Answer Runtime Error Compilation Error 100 None of the above **26. Multiple Choice: 26: Predict the out...**Points:


Question

Predict the output of following python programs:

```
import string
import string
Line1 = "And Then There Were None"
Line2 = "Famous In Love"
Line3 = "Famous Were The Kol And Klaus"
Line4 = Line1 + Line2 + Line3
print(string.find(Line1, 'Were'), string.count((Line4), 'And'))
```

Answer

True 1

 (15,2)

True 2

(15, 4)

 27. Multiple Choice: 27: Which of the fo...

Points: **1**

Question

Which of the following statements is true?

Answer

If any
exception is
thrown in try
block, else
block is
executed

When there
is a deviation
from the
rules of a
programming
language, a
semantic
error is
thrown

All raised
standard
exceptions
must be
handled in
Python



The
standard
exceptions
are
automatically
imported into
Python
programs

28. Multiple Choice: 28: _____...

Points: 1

Question

_____ exceptions are raised as a result of an error in opening a particular file.

Answer IOError

ImportError

TypeError

ValueError

29. Multiple Choice: 29: Which of the fo...

Points: 1

Question

Which of the following is false about protected class members?

Answer

They begin
with one
underscore



They can
be
accessed
by name
mangling
method

They can
be
accessed
by
subclasses

They can
be
accessed
within a
class

30. Multiple Choice: 30: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
class A:
    def str_(self):
        return '1'
class B(A):
    def init_(self):
        super()._init__()
class C(B):
    def init_(self):
        super()._init__()
def main():
    obj1 = B()
    obj2 = A()
    obj3 = C()
    print(obj1, obj2,obj3)
main()
```

Answer

1"1"1'

123



111

An
expectation
is thrown

31. Multiple Choice: 31: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
class A:
    def __init__(self):
        self.multiply(15)
        print(self.i)

    def multiply(self, i):
        self.i = 4 * i;
class B(A):
    def __init__(self):
        super().__init__()

    def multiply(self, i):
        self.i = 2 * i;
obj = B()
```

Answer

15

 30

60

An exception is thrown

 32. Multiple Choice: 32: Which of the fo...Points: **1****Question**

Which of the following statements is true?

Answer

Overriding
isn't
possible in
Python

A private
method in a
superclass
can be
overridden



A non-private method in a superclass can be overridden

A subclass method can be overridden by the superclass

33. Multiple Choice: 33: What type of in...

Points: 1

Question

What type of inheritance is illustrated in the following Python code?

```
class A():  
    pass  
class B(A):  
    pass  
class C(B):  
    pass
```

Answer

Single-level inheritance

Hierarchical
inheritance

Multiple
inheritance



Multi-level
inheritance

34. Multiple Choice: 34: What does singl...

Points: 1

Question

What does single-level inheritance mean?

Answer

Multiple
base
classes
inherit a
single
derived
class



A single
subclass
derives
from a
single
superclass

A single
superclass
inherits
from
multiple
subclasses

A
subclass
derives
from a
class
which in
turn
derives
from
another
class

35. Multiple Choice: 35: Which of the fo...

Points: 1

Question

Which of the following statements isn't true?

Answer



The value
of a private
variable in
the
superclass
can be
changed in
the
subclass

A non-private method in a superclass can be overridden

A derived class is a subset of superclass

When invoking the constructor from a subclass, the constructor of superclass is automatically invoked

36. Multiple Choice: 36: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
class A:
    def __init__(self,x):
        self.x = x
    def count(self,x):
        self.x = self.x+1
class B(A):
    def __init__(self, y=0):
        A.__init__(self, 3)
        self.y = y
    def count(self):
        self.y += 1
def main():
    obj = B()
    obj.count()
    print(obj.x, obj.y)
main()
```

Answer 3 0

3 1

0 1

An exception is thrown

37. Multiple Choice: 37: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
class Test:
    def __init__(self):
        self.x = 0
class Derived_Test(Test):
    def __init__(self):
        Test.__init__(self)
        self.y = 1
def main():
    b = Derived_Test()
    print(b.x,b.y)
main()
```

Answer

Error
because
class B
inherits A
but variable
x isn't
inherited

0 0

 0 1

Error, the
syntax of
the
invoking
method is
wrong

38. Multiple Choice: 38: Which of the fo...

Points:

Question

Which of the following is not a type of inheritance?

Answer

Multi-level



Double-
level

Single-
level

Multiple

39. Multiple Choice: 39: Which of the fo...

Points:

Question

Which of the following Python code creates an empty class?

Answer

```
class A:  
    return
```

```
class A:
```



```
class A:  
    pass
```

```
It is not  
possible  
to create  
an empty  
class
```

 40. Multiple Choice: 40: Which of the fo...Points: **1****Question**

Which of the following statements are true?

Answer

```
When you  
open a file  
for reading,  
if the file  
does not  
exist, an  
error occurs
```

```
When you  
open a file  
for writing, if  
the file does  
not exist, a  
new file is  
createdax
```

When you open a file for writing, if the file exists, the existing file is overwritten with the new file



All of the above mentioned

41. Multiple Choice: 41: Predict the out...

Points:

Question

Predict the output of following python programs:

```
f = None
for i in range (5):
    with open("data.txt", "w") as f:
        if i > 2:
            break
print(f.closed)
```

Answer

True

False

None

Error

42. Multiple Choice: 42: What will be th...

Points:

Question

What will be the output of the following Python code?

```
import re
re.ASCII
```

Answer

8

64

256

32

 43. Multiple Choice: 43: Which of the fo...Points: **1****Question**

Which of the following statements is false about recursion?

Answer

Every recursive function must have a base case

Infinite recursion can occur if the base case isn't properly mentioned

A recursive function makes the code easier to understand



Every recursive function must have a return value

44. Multiple Choice: 44: Predict the out...

Points: 1

Question

Predict the output of following python programs:

```
def a(n):
    if n == 0:
        return 0
    elif n == 1:
        return 1
    else:
        return a(n-1)+a(n-2)
for i in range(0,4):
    print(a(i),end=" ")
```

Answer

1 1 2 3 7



0 1 1 2

1 2 3

AN exception is thrown

45. Multiple Choice: 45: Which function ...

Points: 1

Question

Which function overloads the == operator?

Answer

`__eq__()`



`__eq__()`

`__isequal__()`

None of
the above

46. Multiple Choice: 46: What will be th...

Points:

Question

What will be the output of the following Python code?

```
class test:
    def __init__(self,a="Hello World"):
        self.a=a

    def display(self):
        print(self.a)
obj=test()
obj.display()
```

Answer

The
program
has an error
because
constructor
can't have
default
arguments



"Hello
World" is
displayed

Nothing is
displayed

The
program
has an
error
display
function
doesn't
have
parameters

47. Multiple Choice: 47: What will be th...

Points: 1

Question

What will be the output of the following Python code?

```
class test:
    def __init__(self):
        self.variable = 'Old'
        self.Change(self.variable)
    def Change(self, var):
        var = 'New'
obj=test()
print(obj.variable)
```

Answer

Error
because
function
change
can't be
called in the
__init__
function

'New' is
printed



'Old' is
printed

Nothing is
printed

48. Multiple Choice: 48: What will be th...

Points: 1

Question

What will be the output of the following Python code?

```
class fruits:
    def __init__(self, price):
        self.price = price
obj=fruits(50)

obj.quantity=10
obj.bags=2

print(obj.quantity+len(obj.__dict__))
```

Answer



13

52

12

60

 49. Multiple Choice: 49: What will be th...

Points: 1

Question

What will be the output of the following Python code?

```
def foo():  
    total += 1  
    return total  
total = 0  
print(foo())
```

Answer

1

 error

0

None of
the above 50. Multiple Choice: 50: In python, whic...

Points: 1

Question

In python, which of the following function checks in a string that all characters are digits?

Answer

isalnum()

capitalize()



isdigit()

shuffle(lst)

51. Multiple Choice: 51: Which of the fo...

Points: 1

Question

Which of the following is an invalid statement?

Answer

a,b,c =
1000, 2000,
3000

a_b_c =
1,000,000



a b c =
1000
2000
3000

abc =
1,000,000

52. Multiple Choice: 52: What is the val...

Points: 1

Question

What is the value stored in sys.argv[0]?

Answer

null

the first
argument



the
program's
name

you
cannot
access it

53. Multiple Choice: 53: Fill in the lin...

Points: 1

Question

Fill in the line of code for calculating the factorial of a number.

```
def fact(num):  
    if num == 0:  
        return 1  
    else:  
        return _____
```

Answer

(num-1)*
(num-2)

num*(num-1)



```
num*fact(num-1)
```

```
fact(num)*fact(num-1)
```

54. Multiple Choice: 54: What will be th...

Points:

Question

What will be the output of the following Python 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)
```

Answer

4

5

6



7

55. Multiple Choice: 55: What is the out...

Points:

Question

What is the output of the following program?

```
import threading
i = 5
class thread(threading.Thread):
    def _init_(self, thread_ID, thread_name):
        threading.Thread._init_(self)
        self.thread_ID = thread_ID
        self.thread_name = thread_name
    def run(self):
        i = i + 1
        print(i)
thread1 = thread(100, "GFG ")
thread2 = thread(101, "Geeks")
thread1.start()
thread2.start()
```

Answer

66

67

Compilation
error



Runtime
error

56. Multiple Choice: 56: What will be th...

Points: 1

Question

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

```
print([i.lower() for i in "HELLO"])
```

Answer

'hello'



['h', 'e', 'l',
'l', 'o']

```
['hello']
```

```
hello
```

57. Multiple Choice: 57: What will be th...

Points: **1**

Question

What will be the output of the following Python code?

```
d = {"john":40, "peter":45}
d["john"]
```

Answer

"john"

"peter"

45

40

58. Multiple Choice: 58: What will be th...

Points: **1**

Question

What will be the output of the following Python code?

```
my_tuple = (1, 2, 3, 4)
my_tuple.append( (5, 6, 7) )
print len(my_tuple)
```

Answer

1

2

5

 Error **59. Multiple Choice: 59: Suppose d = {"j...}**Points: **1****Question**

Suppose d = {"john":40, "peter":45}. To obtain the number of entries in dictionary which comm and do we use?

Answer

d.size()



len(d)

size(d)

d.len()

 60. Multiple Choice: 60: Given a functio...Points: **1****Question**

Given a function that does not return any value, What value is thrown by default when executed in shell.

Answer	int	
	void	
	bool	
	<input checked="" type="radio"/> None	

Select: All None Select by Type:

Delete and Regrade

Points

Update and Regrade

Hide Question Details