What is the output of the expression re.split(r'[aeiou]', 'abcdefghij')? ['','bcd','fgh','j']

What does seek method of a file object do? Moves the current file position to a different location at a defined offset

Which of the following methods of a match object, mo, is used to view the grouped portions of match in the form of a tuple mo.groups()

Which of the following syntax is used to name a grouped portion of a match? P<group\_name>

Which of the following methods of a match object, mo, is used to view the named group portions of match in the form of a dictionary mo.groupdict()

What does the search method of re module do? it matches the pattern at any position of the string

Which of the following modules support regular expressions in python?

In a match found by a defined pattern, how to group various portions of a match Using paranthesis, ()

What does the match method of re module do? it matches the pattern at the start of the string

Which of the following expression is used to compile the pattern p? re.compile(p)

\_\_\_\_\_

\_\_\_\_\_

Django web frame work uses SQLAlchemy as Object relational mapper. State True or False False

pyodbc is an open source Python module that makes accessing ODBC databases simple. State True or False True

Which of the following method is used to fetch all the rows of a query result ? fetchall

Which of the following method is used to fetch next one row of a query result ? fetchone

Which of the following package provides the utilities to work with postgreSQL database?
psycopg2

Which of the following package provides the utilities to work with MySQLDB database? MySQLdb

While using Object relation mappers for database connectivity, a table is treated as ?
Class

Which of the following package provides the utilities to work with mongodb database?

pymongo

Which of the following package provides the utilities to work with Oracle

```
database?
cx_Oracle
Which of the following method is used to insert multiple rows at a time in
sqlite3 datatbase?
executemany
______
_____
What is the output of the following code ?
def outer(x, y):
   def inner1():
       return x+y
   def inner2(z):
       return inner1() + z
   return inner2
f = outer(10, 25)
print(f(15))
50
What is the output of the following code ?
def outer(x, y):
   def inner1():
      return x+y
   def inner2():
       return x*y
   return (inner1, inner2)
(f1, f2) = outer(10, 25)
print(f1())
print(f2())
35
250
A Closure is always a function. State True or False
What is the output of the following code ?
v = 'Hello'
def f():
   v = 'World'
   return v
print(f())
print(v)
World
Hello
```

```
What is the output of the following code ?
def multipliers():
    return [lambda x : i * x \text{ for } i \text{ in range}(4)]
print([m(2) for m in multipliers()])
[6,6,6,6]
A Closure does not hold any data with it. State True or False
False
What is the output of the following code ?
def f(x):
   return 3*x
def g(x):
   return 4*x
print(f(g(2))
24
Which of the following are true about functions in python?
A(x:12, y:3)
_______
What is the ouput of the following code ?
def decorator_func(func):
   def wrapper(*args, **kwdargs):
   return func(*args, **kwdargs)
wrapper.__name__ = func.__name__
   return wrapper
@decorator_func
def square(x):
    return x**2
print(square.__name___)
wrapper
Which of the following is true about decorators ?
Decorator can be chained
What is the output of the following code ?
def bind(func):
   func.data = 9
    return func
@bind
def add(x, y):
   return x + y
print(add(3, 10))
print(add.data)
13
9
```

```
What is the output of the following code ?
def star(func): def inner(args, **kwargs): print("" * 3) func(args, **kwargs)
print("" * 3) return inner
def percent(func): def inner(*args, **kwargs): print("%" * 3) func(*args,
**kwargs) print("%" * 3) return inner
@star @percent def printer(msg): print(msg) printer("Hello")
* * *
%%%
Hello
%%%
What is the output of the following code ?
from functools import wraps
def decorator_func(func):
   @wraps(func)
   def wrapper(*args, **kwargs):
       return func(*args, **kwargs)
   return wrapper
@decorator_func
def square(x):
   return x**2
print(square.__name___)
square
What is the output of the following code ?
def smart_divide(func): def wrapper(*args): a, b = args if b == 0: print('oops!
cannot divide') return
   return func(*args)
return wrapper
@smart_divide def divide(a, b): return a / b
print(divide.name) print(divide(4, 16))
print(divide(8,0))
wrapper
0.25
oops! cannot divide
None
Classes can also be decorated, if required, in Python. State True or False
______
______
What is the output of the following code ?
class A:
   def __init__(self, val):
       self.x = val
```

```
def x(self):
        return self.__x
    @x.setter
    def x(self, val):
        self.\_x = val
    @x.deleter
    def x(self):
        del self.__x
a = A(7)
del a.x
print(a.x)
Attribute Error
Which of the following method definitions can a Descriptor have ?
any of <u>__get__</u> , <u>__set__</u> , <u>__delete__</u>
What is the output of the following code ?
class A:
    def
         _{\rm init}_{\rm (self, x, y)}:
        self.x = x
        self.y = y
    @property
    def z(self):
        return self.x + self.y
a = A(10, 15)
b = A('Hello', '!!!')
print(a.z)
print(b.z)
25
Hello!!!
If a property named temp is defined in a class, which of the following decorator
statement is required for deleting the temp attribute ?
@temp.deleter
If a property named temp is defined in a class, which of the following decorator
statement is required for setting the temp attribute ?
@temp.setter
What is the output of the following code ?
class A:
    def __init__(self, value):
        self.x = value
    @property
    def x(self):
        return self.__x
    @x.setter
    def x(self, value):
        if not isinstance(value, (int, float)):
            raise ValueError('Only Int or float is allowed')
```

@property

```
self.\_x = value
a = A(7)
a.x = 'George'
print(a.x)
ValueError
What is the output of the following code ?
class A:
   def __init__(self, x):
       self.\_x = x
   @property
   def x(self):
       return self.__x
a = A(7)
a.x = 10
print(a.x)
AttributeError
Which of the following is true about property decorator?
property decorator is used either for getting, setting or deleting an attribute
_____
What is the output of the following code ?
class A:
   @staticmethod
   def m1(self):
       print('Static Method')
   @classmethod
   def m1(self):
       print('Class Method')
A.m1()
Class Method
Static Method is bound to Objects and also the Class. State True or Flase
False
What is the output of the following code ?
class A:
   @classmethod
   def getC(self):
       print('In Class A, method getC.')
class B(A):
   pass
b = B()
B.getC()
b.getC()
In Class A, method getC
```

```
In Class A, method getC
Which of the following decorator function is used to create a class method?
classmethod
What is the output of the following code ?
def s1(x, y):
   return x*y
class A:
   @staticmethod
   def s1(x, y):
       return x + y
   def s2(self, x, y):
       return s1(x, y)
a = A()
print(a.s2(3, 7))
What is the output of the following code ?
class A:
   @classmethod
   def m1(self):
       print('In Class A, Class Method m1.')
   def m1(self):
       print('In Class A, Method m1.')
a = A()
a.m1()
In Class A, Method m1
Which of the following decorator function is used to create a static method?
staticmethod
What is the output of the following code ?
class A:
   @staticmethod
   @classmethod
   def m1(self):
      print('Hello')
A.m1(5)
TypeError
_____
What is the output of the following code ?
from abc import ABC, abstractmethod
class A(ABC):
```

```
@classmethod
    @abstractmethod
    def m1(self):
        print('In class A, Method m1.')
class B(A):
    @classmethod
    def m1(self):
        print('In class B, Method m1.')
b = B()
b.m1()
B.m1()
A.m1()
In class B, Method m1.
In class B, Method m1.
In class A, Method m1.
Which of the following module helps in creating abstract classes in Python?
abc
What is the output of the following code ?
from abc import ABC, abstractmethod
class A(ABC):
    @abstractmethod
    def m1(self):
        print('In class A, Method m1.')
class B(A):
    def m1(self):
        print('In class B, Method m1.')
class C(B):
    def m2(self):
        print('In class C, Method m2.')
c = C()
c.m1()
c.m2()
In class B, Method m1.
In class C, Method m2.
What is the output of following code ?
from abc import ABC, abstractmethod
class A(ABC):
    @abstractmethod
    def m1():
        print('In class A, Method m1.')
    def m2():
        print('In class A, Method m2.')
class B(A):
```

```
def m2():
        print('In class B, Method m2.')
b = B()
b.m2()
TypeError
Which of the following decorator function is used to create an abstract method
abstractmethod
What is the output of the following code ?
from abc import ABC, abstractmethod
class A(ABC):
    @abstractmethod
    @classmethod
    def m1(self):
        print('In class A, Method m1.')
class B(A):
    @classmethod
    def m1(self):
        print('In class B, Method m1.')
b = B()
b.m1()
B.m1()
A.m1()
AttributeError
What is the output of following code ?
from abc import ABC, abstractmethod
class A(ABC):
    @abstractmethod
    def m1():
        print('In class A.')
a = A()
a.m1()
TypeError
What is the output of the following code ?
from abc import ABC, abstractmethod
class A(ABC):
    @abstractmethod
    def m1(self):
        print('In class A, Method m1.')
class B(A):
    @staticmethod
    def m1(self):
```

```
print('In class B, Method m1.')
b = B()
B.m1(b)
In class B, Method m1.
______
______
What is the output of the following code ?
from contextlib import contextmanager
@contextmanager
def context():
   print('Entering Context')
   print("Exiting Context")
with context():
   print('In Context')
Entering Context
In Context
Exiting Context
Which of the following module helps in creating a context manager using
decorator contextmanager ?
contextlib
What does the contex manger do when you are opening a file using with.
It closes the opened file automatically
ZipFile utility of zipfile module is a context manager. State True or False
True
Popen of subprocess module is a context manager. State True or False
True
Which of the following keywords is used to enable a context manager in Python?
with
What is the output of the following code?
from contextlib import contextmanager
@contextmanager
def tag(name):
   print("<%s>" % name)
   vield
   print("</%s>" % name)
with tag('h1'):
   print('Hello')
<h1>
Hello
</h1>
______
______
What is the output of the following code ?
def stringDisplay():
   while True:
      s = yield
```

```
print(s*3)
c = stringDisplay()
c.send('Hi!!')
TypeError
What is the output of the following code ?
def stringDisplay():
    while True:
        s = yield
        print(s*3)
c = stringDisplay()
next(c)
c.send('Hi!!')
Hi!!Hi!!Hi!!
What is the output of the following code ?
def nameFeeder():
    while True:
        fname = yield
        print('First Name:', fname)
        lname = yield
        print('Last Name:', lname)
n = nameFeeder()
next(n)
n.send('George')
n.send('Williams')
n.send('John')
First Name: George
Last Name: Williams
First Name: John
Select the most correct statement that differentiates a Generator from a
Coroutine
Only Coroutines takes input values
Which of the following methods is used to pass input value to a coroutine
send
What is the output of the following code ?
def stringParser():
    while True:
        name = yield
        (fname, lname) = name.split()
        f.send(fname)
        f.send(lname)
def stringLength():
    while True:
        string = yield
        print("Length of '{}' : {}".format(string, len(string)))
f = stringLength(); next(f)
```

```
s = stringParser()
next(s)
s.send('Jack Black')

Length of 'Jack' : 4
Length of 'Black' : 5
```

A Coroutine is a generator object. State True ot False True

\_\_\_\_\_

What is the output of the expression re.sub(r'[aeiou]', 'X', 'abcdefghij') ? XbcdXfghXj

Which of the following command is used to read the next line from a file using the file object fo? fo.readline()

Which of the following command is used to read n number of bytes from a file using the file object fo? fo.read(n)  $\frac{1}{n}$