

<b>Midterm Examination</b> <b>1<sup>st</sup> Semester A.Y. 2022-2023</b>			<b>Questionnaire</b> <b>No.:</b>
<b>College:</b> CICT	<b>Department:</b> BSIT	<b>Course Code:</b> IT 403 WMAD	<b>Course Title:</b> Elective 5
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<b>IMPORTANT!</b> 1. Write <b>questionnaire no.</b> to your answer sheet. 2. <b>Do not write anything</b> on this questionnaire.			

**Direction:** Shade the circle of your answer/s completely IN YOUR ANSWER SHEET.

**I. SITUATIONAL AND FACTUAL PROBLEMS**

1. What will happen when you attempt to run the following code?

```
print(Hello, World!)
```

- A. The code will print Hellow, World! To the console.

B. The code will raise the TypeError exception.
- C. The code will raise the ValueError exception.

D. The code will raise the SyntaxError exception.

2. The top-most Python exception is called:

- A. BaseException

B. TopException
- C. Exception

D. PythonException

3. Entering the try: block implies that:

- A. The block will be omitted

B. All of the instructions from this block will be executed
- C. None of the instructions from this block will be executed

D. Some of the instructions from this block may not be executed

4. The meaning of a positional argument is determined by:

- A. Its position within the argument list

B. Its connection with existing variables
- C. The argument's name specified along with its value

D. Its value

5. Which of the following sentences are true about the code? (Select two answers)

```
nums = [1, 2, 3]
vals = nums
```

- A. nums has the same length as vals

B. vals is longer than nums
- C. nums and vals are different lists

D. nums and vals are different names of the same list

6. The unnamed except: block:

- A. Cannot be used if any named block has been used

B. Must be the last one
- C. Can be placed anywhere

D. Must be the first one

7. ASCII is:

- A. A standard module name

B. A character name
- C. A standard code points

D. A pre-defined variable name

8. Which of the following are examples of Python built-in concrete exceptions? (Select two answers)

- A. IndexError
- B. ImportError
- C. ArithmeticError
- D. LookupError

9. The following statement:

```
assert var == 0
```

- A. Will stop the program when var == 0
- B. Has no effect
- C. Will stop the program when var != 0
- D. Is erroneous

10. Which of the following variable names are illegal and will cause the SyntaxError exception? (Select two answers)

- A. for
- B. print
- C. In
- D. in

11. The following statement:

```
assert 0
```

- A. Will stop the program
- B. Has no effect
- C. Will not stop the program
- D. Is erroneous

12. What is the expected behavior of the following program?

```
foo = (1, 2, 3)
foo.index(0)
```

- A. It will output 1 to the screen.
- B. It will cause a ValueError exception.
- C. It will cause a TypeError exception.
- D. It will cause a SyntaxError exception.

13. Which of the following snippets shows the correct way of handling multiple exceptions in a single except clause?

- A. 

```
except: (TypeError, ValueError)
    # Some code
```
- B. 

```
except TypeError, ValueError:
    # Some code
```
- C. 

```
except (TypeError, ValueError):
    # Some code
```
- D. 

```
except: TypeError, ValueError
    # Some code
```

14. Which of the following lines correctly invokes the function defined below? (Select two answers)

```
def fun(a, b, c=0):
    pass
```

- A. fun(b=0, a=0)
- B. fun(b=1)
- C. fun()
- D. fun(0, 1, 2)

15. Take a look at the snippet and choose the true statement:

```
nums = [1, 2, 3]
vals = nums
del vals[:]
```

- A. nums has the same length as vals
- B. vals is longer than nums
- C. nums is longer than vals
- D. the snippet will cause a runtime error

**II. ANALOGY**

16. PROGRAMMING : COMPILER :: SCRIPTING : \_\_\_\_\_

- A. DEBUGGER
- B. INTERPRETER
- C. SCRIPTER
- D. COMPILER

17. \* : REPLICATION :: + : \_\_\_\_\_

- A. ADDITION
- B. BINDING
- C. CONCATENATION
- D. INTERPOLATION

18. X = 0 : ASSIGNING :: X, Y = 0, 1 : \_\_\_\_\_

- A. CASTING
- B. UNPACKING
- C. PACKING
- D. UNCASTING

19. FOR : SEQUENCE :: WHILE : \_\_\_\_\_

- A. ITERATION
- B. SELECTION
- C. CONDITION
- D. FUNCTION

20. BRACKETS : LISTS :: BRACES : \_\_\_\_\_

- A. SETS
- B. DICTIONARIES
- C. TUPLES
- D. RANGE

21. IF : TERNARY :: FUNCTION : \_\_\_\_\_

- A. BUILT-IN
- B. PRE-DEFINED
- C. USER-DEFINED
- D. LAMBDA

22. ZERODIVISIONERROR : ARITHMETICERROR :: KEYERROR : \_\_\_\_\_

- A. INDEXERROR
- B. TYPEERROR
- C. LOOKUPERROR
- D. VALUEERROR

23. MAP : TRANSFORM :: FILTER : \_\_\_\_\_

- A. EXTRACT
- B. INCLUDE
- C. PROCESS
- D. PRODUCE

24. DEFINE : PARAMETERS :: INVOKE : \_\_\_\_\_

- A. PARAMETERS
- B. IMPLEMENTATION
- C. STATEMENTS
- D. ARGUMENTS

25. INPUT() : STRING :: PRINT() : \_\_\_\_\_

- A. NONE
- B. STRING
- C. INTEGER
- D. VOID

26. STR : TEXT :: LIST : \_\_\_\_\_

- A. SEQUENCE
- B. RANGE
- C. COLLECTION
- D. MAPPING

27. SEP : ‘ ‘ :: END : \_\_\_\_\_

- A. ‘\N’
- B. ‘\LN’
- C. ‘\N’
- D. ‘\L’

28. [:]: INDEXING :: [:]: \_\_\_\_\_

- A. SPLITTING
- B. JOINING

- C. TRIMMING
- D. SLICING

29. TYPE(0.0) : <CLASS 'FLOAT'> :: TYPE("") : \_\_\_\_\_

- A. <CLASS 'NONE'>
- B. <CLASS 'INT'>

- C. <CLASS 'STR'>
- D. <CLASS 'STRING'>

30. GENERIC : ABSTRACT :: SPECIFIC : \_\_\_\_\_

- A. OBJECTIVE
- B. ERROR

- C. EXCEPTION
- D. CONCRETE

### III. OUTPUT TRACING

31. The following code:

```
print('Aron' > 'Aaron')
```

prints:

- A. 0
- B. False

- C. 1
- D. True

32. The following code:

```
print(3 * 'a' + 'p')
```

prints:

- A. appp
- B. aaap
- C. apapap
- D. aaappp

33. What is the output of the following piece of code?

```
tup = 1, 2, 4, 8
tup = tup[-2:-1]
tup = tup[-1]
print(tup)
```

- A. (4)
- B. (4,)
- C. 4
- D. the snippet will cause a runtime error

34. The following code:

```
print(chr(ord('z')) - 5)
```

prints:

- A. v
- B. u
- C. The snippet will cause a TypeError
- D. The snippet will cause a ValueError

35. The following code:

```
print(float('1, 3'))
```

- A. Raises a ValueError exception
- B. Raises a SyntaxError Exception
- C. Raises a TypeError exception
- D. Raises an ArithmeticError exception

36. The following code:

```
x = '\\'
print(len(x))
```

prints:

- A. 3
- B. 2
- C. 1
- D. 0

37. The following code:

```
print(sep='_', 'hello')
```

- A. Raises a ValueError exception
- B. Raises a SyntaxError Exception
- C. Raises a TypeError exception
- D. Raises an ArithmeticError exception

38. What is the output of the following piece of code?

```
x = 1 // 5 + 1 / 5
print(x)
```

- A. 0.0
- B. 0.4
- C. 0
- D. 0.2

39. The following code:

```
print(ord('p') - ord('l'))
```

prints:

- A. 4
- B. 3
- C. 2
- D. 1

40. The following snippet:

```
hi()
def hi():
    print('hi!')
```

- A. Will output 'hi!'
- B. Will cause a NameError
- C. Will cause a TypeError
- D. Will output hi!

41-43. What is the output of the following snippet?

```
def fun(x, y):
    if x == y:
        return x
    else:
        return fun(x, y-1)
print(fun(0, 3))
```

- A. 2
- B. The snippet will cause a runtime error
- C. 0
- D. 1

44-46. How many stars (\*) will the following snippet send to the console?

```
i = 0
while i < i + 2:
    i += 1
    print("*")
else:
    print("*")
```

- A. It's an infinite loop, printing one star per line
- B. Zero
- C. One
- D. Two

47-49. How many hashes (#) will the following snippet send to the console?

```
lst = [[x for x in range(3)] for y in range(3)]
for r in range(3):
    for c in range(3):
        if lst[r][c] % 2 != 0:
            print("#")
```

- A. zero
- B. three
- C. six
- D. nine

50-52. What is the output of the following snippet?

```
dct = {'one': 'two', 'three': 'one', 'two': 'three'}
v = dct['three']
for k in range(len(dct)):
    v = dct[v]
print(v)
```

- A. ('one', 'two', 'three')
- B. two
- C. three
- D. one

53-55. The following snippet:

```
def func(a, b):
    return b ** a
print(func(b=2, 2))
```

- A. Will output None
- B. Will output 4
- C. Will output 2
- D. Is erroneous

56-58. What is the output of the following code if the user enters a 0?

```
try:
    v = input()
    print(int(v)/len(v))
except ValueError:
    print("Bad input")
except:
    print("Booo!")
```

- A. 0.0
- B. Bad input
- C. Booo!
- D. 1.0

59-61. What is the output of the following code?

```
dct = {}
dct['1'] = (1, 2)
dct['2'] = (2, 1)
for x in dct.keys():
    print(dct[x][1], end="")
```

- A. 12
- B. (1, 2)
- C. (2, 1)
- D. 21

62-64. What is the output of the following code?

```
x = 1
y = 2
x, y, z = x, x, y
z, y, z = x, y, z
print(x, y, z)
```

- A. 1 2 1
- B. 1 1 2
- C. 2 1 2
- D. 1 2 2

65-67. What is the output of the following code?

```
try:
    print("5"/0)
except ArithmeticError:
    print("arith")
except ZeroDivisionError:
```

```

    print("zero")
except:
    print("some")

```

- A. zero
- B. 0
- C. arith
- D. some

68-70. The following snippet:

```

def fun1(a):
    return None
def fun2(a):
    return fun1(a) * fun1(a)
print(fun2(2))

```

- A. Will output 4
- B. Will cause a ValueError
- C. Will cause a TypeError
- D. Will output 16

71-75. What is the output of the following code?

```

def fun(x):
    return 1 if x % 2 == 0 else

print(fun(fun(2)) + 1)

```

- A. None
- B. 3
- C. TypeError
- D. SyntaxError

76-80. What is the output of the following code?

```

def f(x):
    try:
        x = x / x
    except:
        print("a", end='')
    else:
        print("b", end='')
    finally:
        print("c", end='')

```

```

f(1)
f(0)

```

- A. It will print bcac
- B. It will print acac
- C. It will print bcac
- D. It will raise an unhandled exception

81-85. What is the output of the following code?

```

class A:
    def __init__(self, v = 1) -> None:
        self.v = v

    def set(self, v) -> int:
        self.v = v
        return v

```

```

a = A()
print(a.set(a.v + 1))

```

- A. 0
- B. 1
- C. 2
- D. 3



86-90. What is the output of the following code?

```
class A:
    def __str__(self) -> str:
        return 'a'

class B(A):
    def __str__(self) -> str:
        return 'b'

class C(B):
    pass

o = C()
print(o)
```

- A. It will print a
- B. It will raise an exception
- C. It will print c
- D. It will print b

91-95. What is the output of the following code?

```
class A:
    def __init__(self, v) -> None:
        self.__a = v + 1

a = A(0)
print(a.__a)
```

- A. It will print 0
- B. It will print 1
- C. It will raise a NameError exception
- D. It will raise an AttributeError exception

96-100. What is the output of the following code?

```
class A:
    v = 2

class B(A):
    v = 1

class C(B):
    pass

o = C()
print(o.v)
```

- A. It will print 2
- B. It will print 1
- C. It will raise an exception
- D. It will print an empty line

#### IV. FILL IN THE MISSING CODE

101-105. Which of the following missing lines of code should be used to have the desired output?

PYTHONINTHEWEB

Code:

```
str = 'aQsddeZghUtuImuPf0vJgy0kUrvIbFfgyhXgFrfdvvCg'
for s in str:
    if s.isupper():
        # Missing code here
```

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>A.</b> print(chr(ord(s)+1),end="") | <b>C.</b> print(ord(chr(s)+1),end="") |
| <b>B.</b> print(chr(ord(s)-1),end="") | <b>D.</b> print(ord(chr(s)-1),end="") |

106-110. Which of the following missing lines of code should be used to have the desired output?

15

Code:

```
def f(x):
    if x == 0:
        # Missing code here
    return x + f(x - 1)
print(f(5))
```

- |                    |                       |
|--------------------|-----------------------|
| <b>A.</b> return 0 | <b>C.</b> return None |
| <b>B.</b> return 1 | <b>D.</b> return True |

111-115. Which of the following missing lines of code should be used to have the desired output?

```
['aaron']: a: 2 a: 2 r: 1 o: 1 n: 1
['paul']: p: 1 a: 1 u: 1 l: 1
```

Code:

```
for w in "aaron paul".split():
    # Missing code here
    for l in list(w):
        print(f" {l}: {w.count(l)}", end="")
    print()
```

- |                                    |                                    |
|------------------------------------|------------------------------------|
| <b>A.</b> print(f"[{w}]:")         | <b>C.</b> print(f"[{w}]:", end="") |
| <b>B.</b> print(f"[{w}]:", end="") | <b>D.</b> print(f"[{w}]:")         |

116-120. Which of the following missing lines of code should be used to have the desired output?

a  
b  
c

Code:

```
dct = {}
lst = ['a', 'b', 'c', 'd']
for i in range(len(lst)-1):
    dct[lst[i]] = lst[i],
for i in sorted(dct.keys()):
    k = dct[i]
```

`# Missing code here`

- A. `print(k)`
- B. `print(k[i])`
- C. `print(k["0"])`
- D. `print(k[0])`

121-125. Which of the following missing lines of code should be used to have the desired output?

`['a', 'a', 'ror', 'o', 'non', ' ', 'pop', 'a', 'u', 'lol']`

Code:

```
def alienLanguage(msg):
```

`# Missing code here`

```
print(alienLanguage("Aaron Paul"))
```

- A. `return list(map(lambda a: a+"o"+a if a not in 'aeiou ' else a, msg.lower()))`
- B. `return list(map(lambda a: a+o+a if a not in 'aeiou ' else a, msg.lower()))`
- C. `return list(map(lambda a: a+"o"+a if a not in 'aeiou' else a, msg.lower()))`
- D. `return list(map(lambda a: a+o+a if a not in 'aeiou' else a, msg.lower()))`