Started on	Saturday, 29 May 2021, 10:29 AM
State	Finished
Completed on	Saturday, 29 May 2021, 12:29 PM
Time taken	2 hours

Question 1

Not answered

Marked out of 1.00

how difficult is the exam? (all answers are correct).

a. Difficult

b. Easy

c. Very Difficult

d. Very Easy

e. Medium

Question 2

Not answered

Marked out of 1.00

Which of the following operators is right-associative.

a. =

b. *

c. and

d. +

Question 3

Not answered

Marked out of 1.00

The function range(5) return a sequence _____.

a. 0, 1, 2, 3, 4, 5

b. 0, 1, 2, 3, 4

c. 1, 2, 3, 4

d. 1, 2, 3, 4, 5

Question 4

Not answered

Marked out of 1.00

What will be displayed by the following code?

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

a. 2 1

b. 2 2

c. 1 1

d. 1 2

Question 5

Not answered

Marked out of 1.00

What is x after the following statements?

```
x = 1
x *= x + 1
```

a. 4

b. 1

c. 3

d. 2

Question 6

Not answered

Marked out of 1.00

Analyze the following code:

```
even = False
if even:
    print("It is even!")
```

a. The code is wrong. replace if even: with if even = True:

b. The code is wrong. replace if even: with if even == True:

c. The code displays It is even!

d. The code displays nothing.

Question 7

Not answered

Marked out of 1.00

How many times will the following code print "Welcome to Python"?

```
count = 0
while count < 10:
    print("Welcome to Python")
```

a. 10

b. 9

c. infinite number of times

d. 11

Question 8

Not answered

Marked out of 1.00

Will the following program terminate?

```
balance = 10
while True:
    if balance < 9:continue
    balance = balance - 9
```

- a. No
- b. Yes

Question 9

Not answered

Marked out of 1.00

Which of the following is a valid identifier?

- a. Kilo1
- b. While
- c. Mile
- d. (red)

Question 10

Not answered

Marked out of 1.00

Which of the following is a valid identifier?

- a. 8+9
- b. 9X
- c. mile
- d. $343

Question 11

Not answered

Marked out of 1.00

Write what would be printed by the print statement in the following fragment of Python code.

```
if not True == False:
    print("Ok")
else:
    print("Fine")
```

a. Fine

b. Ok

Question 12

Not answered

Marked out of 1.00

Will the following program terminate?

balance = 10

while True:

    if balance < 9: break

    balance = balance - 9

a. Yes

b. No

Question 13

Not answered

Marked out of 1.00

What will be displayed when the following code is executed?

```
number = 6
while number > 0:
    number -= 3
    print(number)
```

a. 6 3 0

b. 6 3

c. 3 0 -3

d. 3 0

Question 14

Not answered

Marked out of 1.00

Which of the following functions return 4.0

a. int(3.4)

b. int(3.9)

c. round(3.5)

d. eval(3.4)

Question 15

Not answered

Marked out of 1.00

What is 2 ** 3 evaluates to _____.

a. 8.0

b. 9

c. 9.0

d. 8

Question 16

Not answered

Marked out of 1.00

What will be displayed by the following code? def f1(x=1, y=2):

```
    x = x + y
    y += 1
     print(x, y)
f1()
```

a. 3 1

b. 1 1

c. 1 3

d. 3 3

Question 17

Not answered

Marked out of 1.00

What is the result of 45 / 4?

a. 11.25

b. 12

c. 10

d. 11

Question 18

Not answered

Marked out of 1.00

Computer can execute the code in _____.

a. high-level language

b. assembly language

c. machine language

d. python language

Question 19

Not answered

Marked out of 1.00

An identifier can be a keyword?

Select one:

- True
- False

Question 20

Not answered

Marked out of 1.00

Which of the following expression results in a value 1?

- a. 37 % 6
- b. 15 % 4
- c. 2 % 1
- d. 25 % 5

Question 21

Not answered

Marked out of 1.00

Given the following function

```
def nPrint(message, n):
    while n > 0:
        print(message)
    n -= 1
```

What will be displayed by the call nPrint('a', 4)?

- a. invalid call
- b. aaa
- c. aaaa
- d. infinite loop

Question 22

Not answered

Marked out of 1.00

The following code displays _____.

```
temperature = 50
if temperature >= 100:
    print("too hot")
elif temperature <= 40:
    print("too cold")
else:
    print("just right")
```

a. too hot

b. too cold

c. just right

d. too hot too cold just right

Question 23

Not answered

Marked out of 1.00

A Python paragraph comment uses the style _____.

a. ''' comments '''

b. /# comments #/

c. /* comments */

d. // comments //

Question 24

Not answered

Marked out of 1.00

A Python line comment begins with _____.

a. $$

b. #

c. /*

d. //

Question 25

Not answered

Marked out of 1.00

1. _____ is an operating system.

a. Windows XP

b. Python

c. Java

d. C++

Question 26

Not answered

Marked out of 1.00

What will be displayed by the following code?

```
x = 1
x = 2 * x + 1
print(x)
```

a. 1

b. 4

c. 2

d. 3

Question 27

Not answered

Marked out of 1.00

A function _____.

a. must always have a return statement to return a value

b. must always have a return statement to return multiple values

c. may have no parameters

d. must have at least one parameter

Question 28

Not answered

Marked out of 1.00

What is the value of the following expression?

print(True or True and False)

a. True

b. False

Question 29

Not answered

Marked out of 1.00

Python syntax is case-sensitive?

Select one:

True

False

Question 30

Not answered

Marked out of 1.00

Which of the following code is correct?

a.
```
print("Programming is fun")
print("Python is fun)
```

b.
```
print("Programming is fun)
print("Python is fun)
```

c.
```
print("Programming is fun")
    print("Python is fun")
```

d.
```
print("Programming is fun")
print("Python is fun")
```

Question 31

Not answered

Marked out of 3.00

Write the output produced by this program below.

```
x = 3
if 2 > x :
      print 'First'
else :
      print  'Second'
      if 2 > x :
            print 'Third'
      print 'Fourth'
print 'Fifth'
```

Question 32

Not answered

Marked out of 4.00

Find the error in the following program.

```
line = raw_input("Type a word")
print "You typed", line
line = line + "h"
num = int(line)
print "You typed the number ", num
```

Question 33

Complete

Marked out of 4.00

Write the output produced by this program below.

```
words = 'this IS NoT EvEN'
print words.title()
print words.replace("IS", 'was')
print words.upper()
print words * 2
```

words=

Question 34

Not answered

Marked out of 5.00

Consider the following function:

```
def list_mystery(list):
    x = 0
    for i in range(len(list) - 1):
        if list[i] > list[i + 1]:
            x += 1
    return x
```

In the left-hand column below are specific lists of integers. Indicate in the right-hand column what value would be returned by function list_mystery if the integer list in the left-hand column is passed as its parameter.

In the left-hand column below are specific lists of integers. Indicate in the right-hand column what value would be returned by function list_mystery if the integer list in the left-hand column is passed as its parameter.

Original Contents of List	Value Returned
`a1 = [8]` `result1 = list_mystery(a1)`	_____
`a2 = [14, 7]` `result2 = list_mystery(a2)`	_____
`a3 = [7, 1, 3, 2, 0, 4]` `result3 = list_mystery(a3)`	_____
`a4 = [10, 8, 9, 5, 6]` `result4 = list_mystery(a4)`	_____
`a5 = [8, 10, 8, 6, 4, 2]` `result5 = list_mystery(a5)`	_____

Question 35

Complete

Marked out of 40.00

La Trobe University – Sample Examination Paper for Part 3

In addition to part 1 and part 2 you will have two questions like the below questions:

(a) Write a program that asks the user to enter the volume (a float) and the height of a can. The program then calculates and displays the radius of the can.

Note: The volume v of can with diameter d and height h is given by:

(b) Let t be a string representing a time in 24-hour format e.g. t = "17:10".

Write a code segment to compute and print the number minutes between the time "00:00" and the time t.

For example, if t = "17:10", the code segment should print 1030 minutes.

(c) Write a program that reads *two* times in 24-hour format (where the first time is earlier than the second one). The program then computes and prints the number of hours and minutes between the two times.

Sample run:

Enter the first time: 09:30

Enter the second time: 17:10

7 hours 40 minutes

(a) Write a program that asks the user to enter his or her full name, which consists of *two or more* names, separated by space characters.

The program then prints out how many non-space characters the full name contains.

(b) Write a program that asks the user to enter 2 or more integers, to be entered on one line, separated by commas.

The program then reads the numbers, computes and prints out the average.

(a) A program is needed to read two times in 24-hour format, where each time is entered as *two integers*. The program then compares the two times and print out one of the following

- t1 is before t2, or
- t1 is the same as t2, or
- t1 is after t2

Without using any arithmetic operators, complete the program below to print

```
h1 = int(input("Enter hours for time t1: "))
m1 = int(input("Enter minutes for time t1: "))
h2 = int(input("Enter hours for time t2: "))
m2 = int(input("Enter minutes for time t2: "))
# To complete
```

(b) Suppose the rules for calculating income tax are as follows:

- 10 percent on the first $40,000
- 20 percent on the amount over $40,000 up to $80,000
- 30 percent on the amount over $80,000 up to $120,000
- 40 percent on the amount over $120,000

Write a program to get the income of a person and prints out the amount of tax the person has to pay.

(a) Write a program that reads a string and prints how many vowels the string contains. Vowels are a, e, i, o and u.

(b) Let numbers be a list of integers. Write statements to determine if all the numbers are positive and print out either

- All the numbers are positive

or

- Not all the numbers are positive

(a) Write a function with the header getDivisors(n) that takes an integer n and return a list of all the proper divisors of n. A proper divisor of n is a divisor which is greater than 1 and less than n. For example, if n is 18, the function should return the list [2, 3, 6, 9]

(b) Write a function with the header countDivisors(n) that takes an integer n and returns the number of proper divisors of n. For example, if n is 18, the function should return 4.

Note: You can use the function defined for part (a), if you wish.

(c) Write a function with the header isPrime(n) that takes an integer n and returns True if n is a prime number and False otherwise.

Note: you can use the function defined for part (a) or part (b), if you wish.

(a) Let numbers be a list of integers. Write statements to set

· All elements that are greater than 100 to 100, and

· All elements that are less than 0 to 0

(b) Let numList be a list of integers.

· Write statements to get a list of all numbers in numList but without any duplicates.

· Add statements to build a dictionary in which a key is a number in numList and the value is how many times the number appears in numList.

For example, if numList is {10, 20, 30, 30, 10, 10}, then the dictionary is

{10: 3, 20: 1, 30: 2}

Consider a text file, named authors.txt that contains data about various authors. A sample of the data is shown below:

Jane Austen; 1775; Pride and Prejudice, Emma, Sense and Sensibility

Emily Brontee; 1818; Wuthering Heights

Franz Kafka; 1883; Metamorphosis, The Great Wall of China

. . .

Each record appears on one line. Each record consists of the author's name, year of birth, and a list of some of his or her works. There may be zero or several blank lines at the end of the file.

Write a program, called ReadAuthors.py, to read the data and to display the data on the screen in the following format:

Jane Austen, 1775

Pride and Prejudice

Emma

Sense and Sensibilty

-

Emily Brontee, 1818

Wuthering Heights

-

Frank Kafka, 1883

Metamorphosis

The Great Wall of China

-

Note that the details of each author ends with a hyphen, which is on a line of its own.

A file named numbers.txt is supposed to exists in the current directory of the computer disk. It is supposed to contain a series of integers.

Write a program that reads the numbers in the file and print their sum. Handle all exceptions that may be raised. Do not use the block

except Exception:

or the block

except:

```
f = open('authors.txt')
#Read all lines of file
for line in f:
#Split the line
data = line.split(';')
#Print results
print(data[0]+','+data[1])
fdata = data[2].split(',')
for l in fdata:
print(l.strip())
print('-')
```

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