This exam consists of 10 multiple choice questions and 3 programming problems.

**Problem 1**

```python
bool1 = True and False
bool2 = (8//3 == 8%3)
print(bool1 or bool2)
```

a. SyntaxError: invalid syntax  
b. False False  
c. True  
d. False  
e. none of the above

**Problem 2**

```python
littlePigCount = 3
pigs = ['first', 'second', 'third']
character = pigs[littlePigCount]
print(character)
```

a. pigs  
b. third  
c. first, second, third  
d. IndexError: list index out of range  
e. none of the above

**Problem 3**

```python
nested = [['list0'], 1, 'two', 1+2]
print(nested[0:1])
```

a. NameError: name 'list0' is not defined  
b. list0  
c. 'list0'  
d. [['list0'], 1]  
e. none of the above
Problem 4

cakes = ['angel', 'devil', 'pound', 'cheese', 'birthday']
byIngredient = cakes[:4]
byOccasion = cakes[-1]
print(byIngredient + byOccasion)

a. SyntaxError: invalid syntax
b. TypeError: can only concatenate list (not "str") to list
c. angeldevilpoundcheesebirthday
d. ['angel', 'devil', 'pound', 'cheese', 'birthday']
e. none of the above

Problem 5

import turtle
pond = turtle.Screen()
box = turtle.Turtle()
box.width(20)
box.forward(100)

a. a line of width 20 and length 100
c. AttributeError: 'Turtle' object has no attribute 'forward'
d. TurtleError: module turtle has no method Turtle
e. none of the above

Problem 6

def testItem(pivot, item):
    if item < pivot:
        return '<'
    if item == pivot:
        return '=='
    else:
        return '>
print(testItem(1, 2))

a. 1, 2
b. >
c. SyntaxError: invalid 'if' statement
d. NameError: name 'testItem' is not defined
e. none of the above
Problem 7

```python
thirsty = False
hungry = True
if thirsty:
    print('drink')
else:
    print('sip')
if hungry:
    print('gorge')
else:
    print('nibble')
```

a. sip
b. sip
gorge
c. SyntaxError: multiple 'if' in statement
d. " (the empty string)
e. none of the above

Problem 8

```python
vowels = 'aeiou'
symmetrical = 'ilovwx'
for letter in vowels:
    if letter in symmetrical:
        print(letter)
```

a) SyntaxError: 'if' inside 'for'
b) i
   | l
   o
   v
   w
c) i
   o
d) nothing will be printed
e) none of the above
Problem 9

for i in range(1):
    print(i)

a) i
b) i
    i
c) 0
    1
d) 0
e) none of the above

Problem 10

def count(collection):
    for i in collection:
        return(i)

print(count('dracula'))

a) c
b) dracula
c) d
d) 7
e) none of the above
Programming problems 11-13 (20 pts each).

**Problem 11**

Part A: 10 points

Write a function named `dashedLine()`. The function `dashedLine()` takes two parameters:

1. a turtle, `t`
2. an integer, `reps`, that is the number of dashes in the line

The function `dashedLine()` should use the turtle `t` to draw `reps` dashes. Each dash should be of length 10 and successive dashes should be separated by a space of length 10.

For example, if `reps = 5`, the following is correct output

```
  — — — — —
```

Part B: 10 points

Write code that calls `dashedLine()`, using the parameters in the example in part A. (Hint: before calling the function, you must import the turtle module and create a turtle.)

**Problem 12**

Write a function named `compare()` that tests the relative size of two objects and returns the result. The function `compare()` takes two parameters:

1. `thingOne`
2. `thingTwo`

The function `compare()` should return the one-character string `<` if `thingOne` is less than `thingTwo`, the one-character string `>` if `thingOne` is greater than `thingTwo`, and the two-character string `==` in all other cases. For example, the following would be correct output:

```python
>>> compare(0, 1)
'<'
>>> compare(0, 1)
'<'
>>> compare('abc', 'a')
'>'
>>> compare([], [])
'=='
```
Question 13

Write a function named introduce(). The function introduce() should twice ask for the name of a person, and then introduce each of the two people to the other. The function introduce() takes one parameter: a string named introduction.

For example, the following would be correct input and output:

```python
>>> introduce('meet')
What's your name? Alphonse
And what's your name? Gaston
Alphonse meet Gaston
Gaston meet Alphonse
```