Multiple Choice Questions [24 Marks]

* Circle the best answer for each of the following questions.
* Each question is worth 1 mark

1. What is not a property of a Python variable?
   1. A variable must be defined before it is used
   2. A variable can store any data type
   3. A variable stores numbers and a string stores letters
   4. A variable can be assigned different values in a program
2. What is not a property of a Python Booleans?
   1. A Boolean can have a value of 0 or 1
   2. A Boolean is a Python data type
   3. A Boolean can have a value of True or False
   4. An example of a Boolean expression is “5 >= 6”
3. Which of the following is not a valid Python string type?
   1. “String”
   2. ‘Word’
   3. String
   4. “True”
4. Which of the following expressions results in a valid Python integer type?
   1. 3/3
   2. 3%3
   3. 3/4
   4. 3.0 \* 4
5. Which of the following expressions results in a valid Python float type?
   1. 5/0
   2. 5\*1
   3. round(5/1)
   4. 5/1
6. Which of the following expressions assigns the variable ‘Number’ a value of 5?
   1. Number == 5
   2. Number = 5
   3. Number = Five
   4. Number += 4
7. Which of the following expressions is not a valid string operation?
   1. “word” + “Three”
   2. “word” == 3
   3. “word” + 3
   4. “word”[3]
8. What is the result of the expression “number = 4” followed by the expression “number >= 4”?
   1. False
   2. True
   3. 4
   4. 5
9. Which of the following expressions evaluates to False?
   1. True and False
   2. True or False
   3. not(False)
   4. not(True == False)
10. What is not a property of a Python list?
    1. A list is a Python data type
    2. Items in a list can be accessed using the [] operator
    3. A list can be made up of any combination of Python data types
    4. The first item in a list has an index of 1
11. For the list “Teams = [“raptors”,”jays”,”leafs”]”, which of the following expressions   
    evaluates to “raptors”?
    1. Teams[1]
    2. Teams[“raptors”]
    3. Teams[0]
    4. Teams[raptors]
12. Which expression will correctly read and store an integer number from the console?
    1. Value = int(print(“Enter a value”))
    2. Integer = input(“Enter a value”)
    3. Value = int(input(“Enter a value”))
    4. Value = input(“Enter an Integer”)
13. What is not a property of a Python “for” loop?
    1. Loops can contain nested inner loops
    2. Statements contained in the loop do not need to be indented
    3. The loop statement may include a loop indexing variable
    4. The number of times to loop can be specified in the loop statement
14. What is not a property of a Python “if … else …” control statement?
    1. The else statements are executed once if the “if” condition is false
    2. The else statements are repeated until the “if” condition is false
    3. The if statements are executed once if the “if” condition is true
    4. The else statements are not executed if the “if” condition is true
15. Which of the following Python Turtle commands will make the pen blue?
    1. myPen.color(192,64,64)
    2. myPen.color(64,192,64)
    3. myPen.color(64,64,192)
    4. myPen.blue()
16. Which of the following sequence of Python Turtle commands will draw a line?
    1. myPen.up(), myPen.forward(20), myPen.down()
    2. myPen.down(), myPen.line(20), myPen.up()
    3. myPen.down(), myPen.shape(“line”), myPen.up()
    4. myPen.down(), myPen.forward(20), myPen.up()
17. Which of the following is a characteristic of a Run-Time Error?
    1. An error in the program that occurs before the program finishes running
    2. An error in the program code that prevents the program from starting to run
    3. When the program runs without errors but does not work correctly
    4. An error that prevents your computer from loading the “repl.it” web page
18. Which of the following is an example of a Run-Time Error?
    1. “name”[5]
    2. name = input(“What is your name)
    3. “name” == input(“What is your name”)
    4. “name”[0]
19. Which of the following is a characteristic of a Single-Line Comment?
    1. The comment starts and ends with three quotations (“””)
    2. The comment starts and ends with a hashtag (#)
    3. The comment is contained within quotation marks (“ … “)
    4. A hashtag (#) can appear anywhere in a line to start the comment
20. Which of the computer components is not found on the motherboard?
    1. The main CPU chip
    2. The hard disk drive (HDD)
    3. The RAM memory
    4. The Graphics Expansion card
21. Which of the following is not a separate computer component in the PC tower case?
    1. The hard disk drive (HDD)
    2. The main CPU chip
    3. The power supply
    4. The CD/DVD disk drive
22. A major concern related to Emoji Equity is that:
    1. The current limited set of emojis may not allow all people to express themselves
    2. The current limited set of emojis promote stereotypes
    3. People should use words instead of emojis to communicate
    4. Social Network software companies are not concerned about Emoji Equity
23. A major concern that the community of Medicine Hat has about Bitcoin Mining is that:
    1. The price of Bitcoin changes day by day
    2. Bitcoin can be used by criminals
    3. Bitcoin mining requires lots of energy
    4. Bitcoin mining does not employ many people
24. The computer virus that attacked the Oshawa Hospital in 2017 was:
    1. The CodeRed worm
    2. The Cryptolocker Trojan
    3. The WannaCry Ransomware attack
    4. The ZeroAccess Botnet