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 stores numbers and a string stores letters
   2. A variable must be defined before it is used
   3. A variable can store any data type
   4. A variable can be assigned different values in a program
2. The result of the Python expression “type (4 / 2)” results in?
   1. “4 / 2” being printed to the screen
   2. “2” being printed to the screen
   3. “<class ‘float’>” being printed to the screen
   4. “<class ‘int>” being printed to the screen
3. Which of the following is not a valid Python string type?
   1. “String”
   2. String
   3. ‘Word’
   4. “True”
4. Which of the following expressions results in a valid Python integer type?
   1. 3/3
   2. 3/4
   3. 3.0 \* 4
   4. round(3/4)
5. Which of the following expressions results in a valid Python float type?
   1. 5/0
   2. 5\*1
   3. 5/1
   4. round(5/1)
6. Which of the following expressions the variable ‘Number’ a value of 5?
   1. Number == 5
   2. Number = 5
   3. Number = “Five”
   4. Number -= 6
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 = 5” followed by the expression “number != 5”?
   1. True
   2. False
   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. For the list “Teams = [“raptors”,”jays”,”leafs”]”, which of the following expressions   
    evaluates to “leafs”?
    1. Teams[3]
    2. Teams[“leafs”]
    3. Teams = [“leafs’]
    4. Teams[2]
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. What is not a property of a Python “for” loop?
    1. Loops can contain nested inner loops
    2. The loop statement may include a loop indexing variable
    3. The number of times to loop can be specified in the loop statement
    4. Statements contained in the loop do not need to be indented
13. What is the main purpose of a Python “for” loop?
    1. To decide when to execute a block of related Python statements
    2. To repeat the execution of a block of related Python statements
    3. To create a user defined function containing a block of related Python statements
    4. To specify a range of values and for use in a block of related Python statements
14. 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.blue()
    4. myPen.color(64,64,192)
15. 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.forward(20), myPen.up()
    3. myPen.down(), myPen.line(20), myPen.up()
    4. myPen.down(), myPen.shape(“line”), myPen.up()
16. Which of the following is a characteristic of a Syntax 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
17. Which of the following is an example of a Run-Time Error?
    1. name = input(“What is your name)
    2. “name”[5]
    3. “name” == input(“What is your name”)
    4. “name”[0]
18. Which of the following is a characteristic of a Multi-Line Block Comment?
    1. The comment block starts and ends with a hashtag (#)
    2. The comment block starts and ends with three quotations (“””)
    3. A hashtag (#) can appear anywhere in a line to start the comment
    4. The comment is contained within quotation marks (“ … “)
19. Which of the computer components is not found on the motherboard?
    1. The hard disk drive (HDD)
    2. The main CPU chip
    3. The RAM memory
    4. The Graphics Expansion card
20. Which of the following is not a separate computer component in the PC tower case?
    1. The hard disk drive (HDD)
    2. The power supply
    3. The CD/DVD disk drive
    4. The main CPU chip
21. Which computer components is responsible for fast short term storage of large program and data files?
    1. The main CPU chip
    2. The RAM memory
    3. The hard disk drive (HDD)
    4. The CD/DVD disk drive
22. A major concern related to Emoji Equity is that:
    1. The current limited set of emojis promote stereotypes
    2. The current limited set of emojis may not allow all people to express themselves
    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 does not employ many people
    4. Bitcoin mining requires lots of energy
24. The computer virus that attacked the Oshawa Hospital in 2017 was:
    1. The CodeRed worm
    2. The Cryptolocker Trojan
    3. The ZeroAccess Botnet
    4. The WannaCry Ransomware attack