### **Section 1: Multiple Choice Questions (MCQs)**

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1. What is the purpose of a programming language?
   * a) To make coffee
   * b) To communicate with computers
   * c) To paint pictures
   * d) To browse the internet
2. Which of the following is a Python variable naming convention?
   * a) Variable names can start with a number
   * b) Variable names can contain spaces
   * c) Variable names are case-sensitive
   * d) Variable names cannot include underscores
3. What does the print() function do in Python?
   * a) Saves a file
   * b) Displays output to the screen
   * c) Takes user input
   * d) Terminates the program
4. What is the correct syntax to take user input in Python?
   * a) input("Enter your name:")
   * b) scan("Enter your name:")
   * c) read("Enter your name:")
   * d) get("Enter your name:")
5. Which of the following is used for loops in Python?
   * a) for
   * b) while
   * c) Both a and b
   * d) None of the above
6. What symbol is used to indicate a comment in Python?
   * a) //
   * b) /\* \*/
   * c) #
   * d) --
7. Which data type is used to store a sequence of characters in Python?
   * a) int
   * b) float
   * c) string
   * d) boolean

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1. What keyword is used to define a function in Python?
   * a) define
   * b) func
   * c) def
   * d) function
2. What will len([1, 2, 3, 4]) return?
   * a) 3
   * b) 4
   * c) 5
   * d) Error
3. How do you create an infinite loop in Python?
   * a) while True:
   * b) for i in range(1000000):
   * c) while (i < 10):
   * d) loop forever:

11.What will be the output of print(3 \* "abc")?

* a) abcabcabc
* b) abc\*3
* c) abc abc abc
* d) Error

12.Which of the following statements about Python lists is true?

* a) Lists are immutable
* b) Lists can store different data types
* c) Lists must have unique elements
* d) Lists cannot be modified once created

13. What will bool([]) return?

* a) True
* b) False
* c) None
* d) Error

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14.How do you correctly open a file named data.txt for writing in Python?

* a) open("data.txt", "r")
* b) open("data.txt", "w")
* c) open("data.txt", "a")
* d) open("data.txt", "x")

15.What does list(range(3)) return?

* a) [0, 1, 2]
* b) [1, 2, 3]
* c) [0, 1, 2, 3]
* d) range(3)