1. ***Short Answer Questions (50-Marks)***
2. What is Python?
3. Name three data types in Python.
4. What is the difference between a list and a tuple in Python?
5. How do you write a single-line comment in Python?
6. What is the purpose of the range() function in Python?
7. Explain the difference between = and == in Python.
8. What will be the output of print(type(42)) ?
9. How do you create a dictionary in Python?
10. What does the len() function do?
11. How do you take user input in Python?
12. ***Multiple Choice Questions (MCQs)(09-Marks)***
13. *Which of the following is used to define a function in Python?*
    1. define
    2. def
    3. function
    4. lambda
14. *What will print(3 \* "Python") output?*
    1. PythonPythonPython
    2. 3Python
    3. Python 3 times
    4. None of the above
15. *Which of the following is NOT a Python data type?*
    1. List
    2. Tuple
    3. Dictionary
    4. Array
16. *Which of the following methods is used to add an item to a list in Python?*
    1. insert()
    2. append()
    3. add()
    4. push()
17. *What will print("Python"[::-1]) output?*
    1. Python
    2. No output
    3. nohtyP
    4. None of the above
18. *How do you check the data type of a variable in Python?*
    1. typeof(variable)
    2. checktype(variable)
    3. type(variable)
    4. datatype(variable)
19. *What does len(["apple", "banana", "cherry"]) return?*
    1. 2
    2. 3
    3. 1
    4. None of the above
20. *How do you start writing a comment in Python?*
    1. //
    2. #
    3. /\*
    4. "Comment"
21. *What is the correct way to create a dictionary in Python?*
    1. {1, 2, 3}
    2. {1: "one", 2: "two", 3: "three"}
    3. [1, 2, 3]
    4. (1, 2, 3)
22. ***True/False Questions(09-Marks)***
23. Python is a compiled language. **(True/False)**
24. 2. The while loop will always execute at least once. **(True/False)**
25. 3. Strings in Python are mutable. **(True/False)**
26. 4. The elif statement is required in every if block. **(True/False)**
27. 5. Python allows multiple inheritance. **(True/False)**
28. 6. The continue statement in a loop skips the rest of the current iteration and moves to the next one. **(True/False)**
29. In Python, the range() function generates a list. **(True/False)**
30. The import math statement is used to include the math module in Python. **(True/False)**
31. Python allows you to create anonymous functions using lambda. **(True/False).**
32. ***Fill in the Blanks(08-Marks)***
33. The keyword used to exit a loop prematurely in Python is \_\_\_\_\_\_.
34. Python uses \_\_\_\_\_\_ indentation to indicate blocks of code.
35. The \_\_\_\_\_\_ function is used to take user input in Python.
36. To check the length of a list, we use the \_\_\_\_\_\_ function.
37. The operator used for exponentiation in Python is \_\_\_\_\_\_.
38. The \_\_\_\_\_\_ loop is used to iterate over a sequence such as a list or a string.
39. In Python, the \_\_\_\_\_\_ statement is used to terminate a function and return a value.
40. The \_\_\_\_\_\_ operator is used for checking membership in lists, tuples, and dictionaries.
41. ***Syntax Check Questions (10- Marks)***
42. Identify the error in the following code snippet:

*print "Hello, World!"*

1. Identify the mistake in the list declaration below:

*my\_list =*

1. Identify the mistake in the following list declaration:

*my\_list = [1, 2, 3, 4, 5)*

1. What will happen if you forget the colon (:) after an if statement?
2. Find the error in this function definition:

*def greet(name) print("Hello, " + name)*

1. What's wrong with this dictionary syntax?

*my\_dict = {1, "one", 2, "two", 3, "three"}*

1. Why will this loop cause an error?

*while x < 5 print(x)*

1. Correct the syntax error in this list comprehension:

*squares = [x \* x for x in range(10) if x % 2 = 0]*

1. Identify the issue in this class definition:

*class Car: def \_\_init\_\_(self, model): self.model = model*

1. What will happen if we use an undefined variable inside a function without declaring it first?