1. Which keyword is used to define a function in Python?
   A) func
   B) def
   C) function
   D) define
   Answer: B
2. What is the default return value of a function that does not return anything?
   A) 0
   B) None
   C) False
   D) ""
   Answer: B
3. Which of the following is correct syntax to call a function in Python?
   A) function[]
   B) function{}
   C) function()
   D) call function
   Answer: C
4. What is the purpose of the return statement?
   A) Exit a loop
   B) Exit a function and optionally send a value back
   C) Print output
   D) Continue execution
   Answer: B
5. Which of the following can be used to create an anonymous function?
   A) def
   B) func
   C) lambda
   D) declare
   Answer: C
6. Which of the following is true about default arguments?
   A) They must appear before non-default arguments
   B) They must appear after non-default arguments
   C) They can be placed anywhere
   D) They are not allowed
   Answer: B
7. Which symbol is used for variable-length positional arguments?
   A) **
   B) *
   C) #
   D) &
   Answer: B

8. Which symbol is used for variable-length keyword arguments?
   A) **
   B) *
   C) ##
   D) &&
   Answer: A
9. Which scope does a variable inside a function belong to by default?
   A) Global
   B) Local
   C) Class
   D) Module
   Answer: B
10. What happens if two functions are defined with the same name?
    A) Both are executed
    B) Error occurs
    C) Last definition overwrites the first one
    D) Both definitions merge
    Answer: C
11. Which built-in function returns the number of arguments a function accepts?
    A) count()
    B) args()
    C) inspect.signature()
    D) len()
    Answer: C
12. Which statement is used to exit from a function?
    A) exit
    B) return
    C) break
    D) stop
    Answer: B
13. Which of these is NOT a valid function name?
    A) my_func
    B) func1
    C) 1function
    D) myFunction
    Answer: C
14. Which keyword is used to access a global variable inside a function?
    A) public
    B) global
    C) scope
    D) extern
    Answer: B

15. Which keyword is used to declare a function inside a class?
    A) def
    B) func
    C) classdef
    D) method
    Answer: A
16. What will happen if a function has no return statement?
    A) It raises an error
    B) It returns None
    C) It returns 0
    D) It prints automatically
    Answer: B
17. Which of the following allows a function to call itself?
    A) Recursion
    B) Iteration
    C) Looping
    D) Nesting
    Answer: A
18. Which of the following is a correct lambda function?
    A) lambda x: x+2
    B) def x: x+2
    C) function(x) = x+2
    D) x=>x+2
    Answer: A
19. Which built-in function gives the documentation of another function?
    A) help()
    B) doc()
    C) info()
    D) describe()
    Answer: A
20. Which function is used to find the memory location of a function object?
    A) location()
    B) id()
    C) type()
    D) hash()
    Answer: B
21. Functions inside functions are called:
    A) Nested functions
    B) Local functions
    C) Inner functions
    D) All of the above
    Answer: D

22. Which statement about functions is true?
    A) A function can return multiple values
    B) A function must return exactly one value
    C) A function cannot return anything
    D) Functions always return a string
    Answer: A
23. Which function can convert another function into a string of its source code?
    A) inspect.getsource()
    B) str()
    C) repr()
    D) toString()
    Answer: A
24. Which built-in function tells the type of a function?
    A) id()
    B) type()
    C) isinstance()
    D) class()
    Answer: B
25. What is the scope of a parameter passed into a function?
    A) Local to that function
    B) Global
    C) Persistent across all calls
    D) System-wide
    Answer: A
26. Which keyword is used inside a function to return control without value?
    A) pass
    B) return
    C) break
    D) None
    Answer: B
27. Which of these functions is predefined in Python?
    A) print()
    B) sum()
    C) len()
    D) All of these
    Answer: D
28. Which of these can be a function argument?
    A) Variable
    B) Expression
    C) Another function
    D) All of these
    Answer: D

29. Which of these is a higher-order function?
    A) A function that returns another function
    B) A function that takes another function as argument
    C) Both A and B
    D) Neither A nor B
    Answer: C
30. Which keyword is used to create generator functions?
    A) yield
    B) return
    C) generate
    D) yieldfrom
    Answer: A
31. What is the output of a function with yield instead of return?
    A) A single value
    B) A generator object
    C) An error
    D) None
    Answer: B
32. Which decorator is used to define a static method in a class?
    A) @staticmethod
    B) @classmethod
    C) @static
    D) @method
    Answer: A
33. Which decorator is used to define a class method?
    A) @staticmethod
    B) @classmethod
    C) @class
    D) @def
    Answer: B
34. Which function returns a list of all attributes and methods of an object?
    A) list()
    B) dir()
    C) getattr()
    D) all()
    Answer: B
35. Which built-in function executes a dynamically created function?
    A) eval()
    B) exec()
    C) run()
    D) call()
    Answer: B

36. Which keyword is used to specify optional function arguments with names?
    A) named
    B) kwargs
    C) **
    D) optional
    Answer: C
37. Which function converts a normal function into an iterator?
    A) iter()
    B) next()
    C) generator()
    D) yield()
    Answer: A
38. Which built-in function returns the docstring of a function?
    A) doc()
    B) doc
    C) help()
    D) info()
    Answer: B
39. A function inside a class is also called a:
    A) Variable
    B) Method
    C) Object
    D) Attribute
    Answer: B
40. Which function allows checking if an object is callable?
    A) callable()
    B) isfunc()
    C) type()
    D) hasattr()
    Answer: A
41. Which function is executed when a Python script runs?
    A) main()
    B) start()
    C) main
    D) run()
    Answer: C
42. Which function can change the default recursion limit?
    A) sys.limit()
    B) sys.setrecursionlimit()
    C) recursion.set()
    D) limit()
    Answer: B

43. Which function is used to get the number of arguments passed to a function at runtime?
    A) len()
    B) nargs()
    C) inspect.getfullargspec()
    D) args()
    Answer: C
44. Which function is used to assign a function to a variable?
    A) aliasing
    B) First-class functions
    C) defvar
    D) bind()
    Answer: B
45. Which of the following is NOT true about functions?
    A) Functions can be nested
    B) Functions can return multiple values
    C) Functions can be stored in data structures
    D) Functions cannot be passed as arguments
    Answer: D
46. Which built-in function returns the hash value of a function object?
    A) hash()
    B) id()
    C) type()
    D) repr()
    Answer: A
47. Which of the following will create a recursive error if not stopped?
    A) A function calling itself without base case
    B) A loop without break
    C) A function with return statement
    D) A function with pass
    Answer: A
48. Which of the following is used to document a function?
    A) Inline comments
    B) Docstrings
    C) print statements
    D) return statements
    Answer: B
49. What is the return type of `map()` function in Python 3?
    A) list
    B) dict
    C) map object (iterator)
    D) tuple
    Answer: C

50. Which function can dynamically import another module and use its functions?
   A) importlib.import_module()
   B) exec()
   C) import()
   D) Both A and C
   Answer: D