1. What is the purpose of Python's 'if' statement? 2 marks

a) To define a loop

b) To perform conditional execution

c) To import external modules

d) To define a function

2. What is the role of indentation in Python? 2 marks

a) It is used for decorative purposes

b) It is required for syntax correctness

c) It has no significance

d) It improves code readability

3. How does Python's interpreter execute code? 2 marks

a) It translates code directly to machine language

b) It interprets code line by line

c) It generates bytecode

d) It compiles code to C language

4. What does a .pyc file contain and is it platform dependent? 2 marks

a) Source code and dependent

b) Compiled Python code and independent

c) Documentation with dependent

d) Configuration settings to run python code

5. What is the purpose of pip in Python? 2 marks

a) To execute Python code

b) To debug Python code

c) To install and manage packages

d) To compile Python code

6. Which of the following is an example of a strongly typed language? 2 marks

a) Python

b) JavaScript

c) C

d) Ruby

7. What does the 'pass' statement do in Python? 2 marks

a) Terminates the program

b) Skips the current iteration and continues with the next iteration in a loop

c) Executes a block of code if a condition is true

d) Does nothing

8. What does the 'continue' statement do in Python? 2 marks

a) Terminates the loop

b) Skips the current iteration and continues with the next iteration in a loop

c) Restarts the loop

d) Has no effect

9. What is the purpose of the 'break' statement in Python? 2 marks

a) Terminates the loop

b) Skips the current iteration and continues with the next iteration in a loop

c) Restarts the loop

d) Has no effect

10. What is the result of 'True or False' in Python? 2 marks

a) True

b) False

c) Error

d) None

11. Which operator is used for 'and' operation in Python? 2 marks

a) ||

b) &&

c) and

d) &

12. What will be the output of below program? 2 marks

x=None

Print(x == False)

a) True

b) False

c) Error

d) None

13. How many indentation levels are allowed in Python? 2 marks

a) 4

b) 8

c) 16

d) Unlimited

e) Python style guide, PEP 8, recommends using 4 spaces for indentation. While Python is flexible about indentation.

14. What is the recommended naming convention for variables in Python? 2 marks

a) camelCase

b) snake\_case

c) PascalCase

d) kebab-case

15. What does a .pyc file stand for? 2 marks

a) Python compiled file

b) Python cache file

c) Python configuration file

d) Python compressed file

16. Which operator has higher precedence, 'and' or 'or'? 2 marks

a) 'and'

b) 'or'

c) Both have the same precedence

d) It depends on the context

17. What is the purpose of the 'continue' statement in Python? 2 marks

a) Terminates the loop

b) Skips the current iteration and continues with the next iteration in a loop

c) Restarts the loop

d) Has no effect

18. Is Python a strongly typed or weakly typed language? 2 marks

a) Strongly typed

b) Weakly typed

c) Dynamically typed

d) Statically typed

19. What is the purpose of the 'pass' statement in Python? 2 marks

a) Terminates the program

b) Does nothing

c) Is a syntax error

d) Skips the current iteration and continues with the next

20. What is the result of 'True or False' in Python? 2 marks

a) True

b) False

c) Error

d) None

21. Which statement is used to exit a loop completely? 2 marks

a) exit

b) skip

c) break

d) quit

22. What is the purpose of the 'elif' keyword in Python? 2 marks

a) To specify an alternative condition

b) To skip the current iteration and continue with the next

c) To specify the default condition

d) To indicate the end of a conditional block

23. What is the result of 'not True' in Python? 2 marks

a) True

b) False

c) Error

d) None

24. What is the purpose of the 'break' statement in Python? 2 marks

a) Terminates the loop

b) Skips the current iteration and continues with the next iteration in a loop

c) Restarts the loop

d) Has no effect

25. What is the purpose of the 'or' operator in Python? 2 marks

a) To perform bitwise OR operation

b) To perform logical OR operation

c) To concatenate strings

d) To access elements in a list

26. what will be the output of below program? 2 marks

if []:

print("This")

else:

print("That")

a. Error

b. This

c. That

d. None

e. No output

27. What will be the output of below program? 2 marks

print (None == True)

a. True

b. False

c. None

d. Error

e. No output

28. What will be the output of below program? 6 marks

numbers = [1, 2, 3, 4, 5]

for num in numbers:

    if num == 3:

        pass

    elif num == 4:

        continue

    elif num == 5:

        break

    print(num,end=" ")

a) 1,2,3

b) 1, 2,3,4,5

c) 1, 2, 3,4

d) 1,3,5