

Python Programming Question Paper

Total Marks: 50

Section 1: Multiple Choice Questions (20 x 1 = 20 marks)

Q1. What is the output of `print(23)`?**

- A) 6
- B) 8
- C) 9
- D) 4

Q2. Which data type is immutable in Python?

- A) List
- B) Dictionary
- C) Tuple
- D) Set

Q3. How do you start a comment in Python?

- A) //
- B) /*
- C) #
- D) --

Q4. What does `len([1,2,3])` return?

- A) 3
- B) 6
- C) 1
- D) Error

Q5. Which loop is used for iterating over a sequence?

- A) if
- B) for

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- C) while
- D) switch

Q6. What is the keyword to define a function?

- A) func
- B) def
- C) function
- D) define

Q7. Which of the following is not a Python data type?

- A) int
- B) str
- C) float
- D) char

Q8. How to access the first element of a list 'lst'?

- A) lst[0]
- B) lst[1]
- C) lst.first()
- D) lst.get(0)

Q9. What does 'OOP' stand for?

- A) Object Oriented Programming
- B) Open Object Protocol
- C) Online Operation Process
- D) Organized Object Pattern

Q10. Which method is used to add an element to a list?

- A) add()
- B) insert()

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C) append()

D) push()

Q11. What is the output of bool("")?

A) True

B) False

C) None

D) Error

Q12. Which statement is used for conditional execution?

A) for

B) if

C) while

D) def

Q13. How to open a file for reading?

A) open('file.txt', 'w')

B) open('file.txt', 'r')

C) open('file.txt', 'a')

D) open('file.txt', 'x')

Q14. What is the base class for all exceptions?

A) Error

B) Exception

C) BaseError

D) RuntimeError

Q15. Which operator is used for floor division?

A) /

B) //

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C) %

D) **

Q16. How to create a class in Python?

A) class MyClass:

B) def MyClass():

C) create MyClass:

D) new MyClass:

Q17. What does 'self' refer to in a class method?

A) The class itself

B) The instance

C) The method

D) The module

Q18. Which function converts a string to lowercase?

A) lower()

B) casefold()

C) lowercase()

D) Both A and B

Q19. What is the output of print(type(5))?

A) <class 'int'>

B) <class 'str'>

C) <class 'float'>

D) <class 'bool'>

Q20. How to handle exceptions in Python?

A) try-except

B) if-else

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- C) for-while
- D) def-return

Section 2: Descriptive Questions (6 x 5 = 30 marks)

Q21. Write a Python program to find the factorial of a number using a loop.

Q22. Explain the difference between lists and tuples with examples.

Q23. Define a class 'Student' with attributes name and age, and a method to display them.

Q24. Write code to read a file 'data.txt' and print its contents.

Q25. Demonstrate error handling for division by zero.

Q26. Create a function that takes a list and returns the sum of its elements.

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Answer Key for MCQs

Q1: B

Q2: C

Q3: C

Q4: A

Q5: B

Q6: B

Q7: D

Q8: A

Q9: A

Q10: C

Q11: B

Q12: B

Q13: B

Q14: B

Q15: B

Q16: A

Q17: B

Q18: D

Q19: A

Q20: A