

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