

19. (a) How many built-in methods are there in Python? Discuss.

Or

(b) Make clear what are built-in attribute methods in Python?

20. (a) Enlighten call by value and call by reference with example program.

Or

(b) Briefly explain about Function Prototypes.

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

21. Explain Operators and its types.

22. Illustrate Built-in and Factory Functions.

23. Expound the Built-in methods and features of Tuples.

24. Describe Command Line Arguments with example.

25. Elaborate Calling, Creating and Passing Functions with example.

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(For candidates admitted from 2022–2023 onwards)

M.C.A. DEGREE EXAMINATION, NOVEMBER 2023.

Computer Applications – Bridge Course

PYTHON PROGRAMMING

Time : Three hours

Maximum : 75 marks

PART A — (20 marks)

Answer ALL questions.

I. (A) Multiple choice questions: ($5 \times 1 = 5$)

1. Which of the following data structures is returned by the functions `globals()` and `locals()`?

- (a) list (b) set
(c) dictionary (d) tuple

2. Which of the following declarations is incorrect?

- (a) `_x = 2` (b) `__x = 3`
(c) `__xyz__ = 5` (d) None of these

3. What is the type of each element in `sys.argv`?
- (a) set (b) list
(c) tuple (d) string
4. Which of the following functions is a built-in function in Python?
- (a) `seed()` (b) `sqrt()`
(c) `factorial()` (d) `print()`
5. The function `pow(x,y,z)` is evaluated as:
- (a) $(x**y)**z$ (b) $(x**y) / z$
(c) $(x**y) \% z$ (d) $(x**y)*z$

(B) Fill in the blanks: (5 × 1 = 5)

6. _____ character is used in Python to make a single line comment.
7. _____ is the name of the operator `**` in Python.
8. List, Tuple, and Range are the _____ of Data Types.
9. _____ is called when a function is defined inside a class.
10. _____ is the use of `id()` function in Python.

II. Answer ALL questions. (5 × 2 = 10)

11. Write the two features of Python.
12. What is Complex Number?
13. Define String only Operator.
14. State File Objects.
15. Mention the type of function and use.

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

16. (a) Discriminate List and Tuple.
Or
(b) What are the four standard data types in Python? Explicate.
17. (a) Write the difference between `else` and `else if` Statement with example Program.
Or
(b) Describe the special features of Lists.
18. (a) Elucidate the Built-in methods and features of Strings.
Or
(b) Explain `Continue` Statement and `Pass` Statement.