

(6 pages)

Reg. No. : .....

**Code No.: 20674 E**

**Sub. Code: EMCA 11**

B.C.A. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2023.

First Semester

Computer Application – Core

PYTHON PROGRAMMING

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The input() function take user's input as
  - (a) integer
  - (b) float
  - (c) string
  - (d) character
2. The purpose of using variables in Python is
  - (a) Store constants
  - (b) Store data values
  - (c) Execute code blocks
  - (d) Define functions
3. The if-else statement in Python is used
  - (a) For indefinite looping
  - (b) When there are multiple conditions and only one should be executed
  - (c) To define a function
  - (d) To iterate over a sequence
4. Nested loops are used
  - (a) To create a loop that runs indefinitely
  - (b) To define a function
  - (c) To iterate over a sequence
  - (d) When you need to loop inside another loop
5. A function which does not have any name in
  - (a) Del function
  - (b) Show function
  - (c) Lambda function
  - (d) None of the above
6. The default values for parameters specified in Python is
  - (a) By using the default keyword
  - (b) By placing the default values in parentheses
  - (c) Using the default attribute
  - (d) Default values are not supported

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7. To add a new element to a list which Python command is used?

- (a) list 1.addEnd(5)
- (b) list 1 .addLast (5)
- (c) list 1.append(5)
- (d) list1 .add(5)

8. Python Dictionary is used to store the data in a format.

- (a) Key value pair      (b) Group value pair
- (c) Select value pair    (d) None of above

9. The key functions used for file handling in Python

- (a) open() and close()
- (b) read() and write()
- (c) append()
- (d) all of the above

10. The purpose of the readline() method in Python file handling is

- (a) To read the entire file
- (b) To read a specific line in the file
- (c) To write a line to the file
- (d) To close the file

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Write a brief note on Identifier.

Or

(b) Explain how arrays are used in python.

12. (a) Explain the Nested if Statement with example.

Or

(b) How pass Statement is used in Python? Explain.

13. (a) What is a function in Python? And discuss how is it defined.

Or

(b) Describe the role of Python modules in organizing code.

14. (a) How do you create an empty list in Python? Explain.

Or

(b) Discuss any two examples of dictionary methods in Python.

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15. (a) How do you open and close files in Python?

Or

- (b) Write about how the 'with' keyword used in Python file handling.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)  
Each answer should not exceed 600 words.

16. (a) Explain various types of operators in Python.

Or

- (b) How input statements are used in Python.  
Give examples.

17. (a) Explain looping statement in detail.

Or

- (b) Write a brief note on break and continue statement in python.

18. (a) Explain the scope and life time of variable in function.

Or

- (b) What is recursion? Write a recursive program in python to find factorial value.

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19. (a) How can you update and delete elements in a tuple? Explain it with suitable example.

Or

- (b) What is the main difference between lists and dictionaries?

20. (a) Discuss some commonly used file methods in python.

Or

- (b) How does the read() and readlines() method work in Python?
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