Code No. : 20670 E   Sub. Code : EMCS 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Computer Science – 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 the questions.

Choose the correct answer:

1. Which of the following is the correct extension of the Python file?

    (a) .python   (b) .pl

    (c) .py   (d) .p

2. Which of the following character is used to give single-line comments in Python?

    (a) //   (b) #

    (c) !   (d) /*

3. Which of the following are control structure in python?

    (a) selection   (b) iteration

    (c) Both (a) and (b) (d) sequential

4. A if condition inside another if is called _____.

    (a) Second if

    (b) Nested if

    (c) Another if

    (d) None of the above

5. The format function, when applied on a string a returns _____.

    (a) Error   (b) int

    (c) bool   (d) str

6. Which of these definitions correctly describes a module?

    (a) Denoted by triple quotes for providing the specification of certain program elements

    (b) Design and implementation of specific functionality to be incorporated into a program.

    (c) Defines the specification of how it is to be used

    (d) Any program that refuses code

7. Suppose list1 is [3, 5, 25, 1, 3], what is min(list1)?

    (a) 3   (b) 5

    (c) 25   (d) 1

8. _____ are used to store the values in keys and pairs.

    (a) Set   (b) Map

    (c) Dictionary   (d) Tuple

9. The readlines( ) method returns _____.

    (a) str

    (b) a list of lines

    (c) a list of single characters

    (d) a list of integers

10. What is the use of "a" in file handling?

    (a) Read

    (b) Write

    (c) Append

    (d) None of the mentioned

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write a note on history of python.

         Or

     (b) Discuss about input and output statements of python.

12. (a) Write a python program for multiplication table. Get user input.

         Or

     (b) How else work in for loop and nested loop works? Give example.

13. (a) (i) Define function.

          (ii) Write note on function call in python.

         Or

     (b) What are the Python string operations? Give example.

14. (a) Write the difference between lists and tuples.

Or

(b) Write the difference between lists and Dictionary.

15. (a) Mention the types of files in python.

Or

(b) How will you find file position in python?

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain about data types in python.

Or

(b) Describe how to define and process arrays in python.

17. (a) Illustrate different if statements in python.

Or

(b) Write the usage of jump statements in python with suitable example.

18. (a) Mention the types of arguments in python.

Or

(b) Illustrate python modules with suitable example.

19. (a) What is Lists in Python? Mention its operations.

Or

(b) Define tuples. Write about nested tuples.

20. (a) How will you read and write in a python file? Explain.

Or

(b) What is the procedure for renaming and deleting files in python?