

END TERM EXAMINATION

THIRD SEMESTER [BCA] JANUARY-FEBRUARY 2023

Paper Code: BCAT-211

Subject: Basics of Python Programming

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory.
Select one question from each unit.

Q1 Answer any five the following:

(5x5=25)

- a) Explain the key features of Python?
- b) Explain Mutable and Immutable Data types with example.
- c) Consider a list $L = [10, 20, 30, 40]$. Find the output of following statements.
 - a. $L[0] = L[0] + 2$
 - b. $L = L + 2$
 - c. $L = L * 2$
 - d. $L[1] = 50$
 - e. $L = L[::-1]$
- d) Explain the following functions with example.
 - i) `update()`
 - ii) `copy()`
- e) Explain the Dynamic Typing feature of Python with example.
- f) Write the difference between indexing and slicing with example.

UNIT-I

Q2 a) Explain the following terms:-

(3½)

- (i) Pass (ii) Continue
- b) Write a python script to print Fibonacci series for first 20 elements.(4)
- c) Explain Entry - Controlled loops in Python with the help of programs. (5)

OR

Q3 a) What is the difference between interactive mode and script mode in python? (3)

b) Write a program that reads a string and check whether it is a Palindrome or not. (5)

c) Explain the following functions with example. (4½)
1. `lstrip()` 2. `swapcase()` 3. `isspace()`

UNIT-II

Q4 a) What is Tuple? How to define and access the elements of Tuple? Explain it with a code. (6)

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UNIT-IV

- Q8** a) Explain the following built-in methods of file. **(6)**
(i) read(n)
(ii) seek()
(iii) writelines()
(iv) tell()
- b) List the advantages of NumPy Arrays over nested python list. **(3½)**
- c) Explain the following functions with respect to Matplotlib. **(3)**
1. barh()
2. legend()
- OR**
- Q9** a) Explain the different file opening modes with example. **(8)**
b) Explain the following function with respect to NumPy **(4½)**
(i) reshape()
(ii) ndim()

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