

Seat. No. _____

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BE SEMESTER-V (NEW) EXAMINATION APRIL - 2025

Subject Name: Python Programming

Subject Code: IT506F-N

Date: 21/04/2025

Time: 12:30pm – 03:30pm

Total Marks: 70

Instructions:

1. Answer each section in separate answer sheet.
2. All questions are Compulsory.
3. Indicate clearly, the option you attempt along with its respective question number.
4. Use the last page of main supplementary of rough work.

Section-I

Q-1 (A) Give the output of following Python code: [5]

```
str1 = 'Python is Programing language'
print "Slice of String : ", str1[2 : 4 : 2]
print "Slice of String : ", str1[0 : -1 : 3]
```

(B) Difference between Tuple VS List and Dictionary VS List [5]

(C) Write a Python program to print Fibonacci series up to n terms [5]

OR

(C) Write a python program to find out Prime number using function. (n=7). [5]

Q-2 (A) Explain type conversation and type casting in python. [5]

(B) Explain built-in data types of python. [5]

OR

(A) Write a Python program to implement the concept of inheritance. [5]

(B) Write a python program to append data to an existing file 'python.py'. Read data to be appended from the user. Then display the contents of entire file [5]

Q-3 (A) Explain the types of methods available in python with a suitable example of each method [5]

(B) How map can be used in Python program? Explain with a suitable example. [5]

OR

(A) Discuss common functions for accessing files [5]

(B) Describe break, continue, pass statement with example [5]

Section-II

- Q-4** (A) Explain `init()`, `super()` and `self` keyword with example. [5]
(B) Explain any two methods of `sys` and `math` modules of python with suitable example [5]
(C) Write a python program to find maximum from a list using `reduce`. [5]
- OR
- (C) What is meant by module in python? List some built-in modules in python. [5]
- Q-5** (A) List out file handling methods in python with example [5]
(B) Explain usage of `try-except` keywords. [5]
- OR
- (A) How exception is handled in python? Explain with example [5]
(B) Write a python program to demonstrate use of `finally` and `else` keywords [5]
- Q-6** (A) Discuss Bubble sort with an example in python [5]
(B) Explain Hash Key, Hash Function in Hash Tables in python with an example. [5]
- OR
- (A) Write a python program that sorts the list `[34, 25, 81, 12, 5]` using merge sort. [5]
(B) Write a python program to sort the elements of list values using selection sort [5]