



Code: 13A05806

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

**PYTHON PROGRAMMING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- List out any twelve keywords in python.
  - Write various I/O statements followed in python.
  - What is the purpose of membership operators?
  - What will be the output of `>>>m = [[x, x + 1, x + 2] for x in range (0, 3)]`?
  - What are the features of dictionary data structure?
  - What are the uses of tuple data structure in python?
  - How to handle default arguments in a function?
  - What is an anonymous function?
  - Give an example code for try exception block.
  - What is meant by data hiding in python?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Is Python a "Scripting language"? Describe the need of python programming.

**OR**

- 3 Show how an input and output function is performed in python with an example.

**UNIT – II**

- 4 Elaborate the available string manipulation facilities in python.

**OR**

- 5 Describe about various operators used in python with examples.

**UNIT – III**

- 6 (a) Discuss the difference between tuples and list.  
(b) Discuss the various operation that can be performed on a tuple and lists (minimum 5) with an example program.

**OR**

- 7 Explain all built-in methods for sequences data structure in python.

**UNIT – IV**

- 8 (a) Write a suitable python program to describe scope of variables.  
(b) Write a suitable program to explain passing variable length arguments to a function.

**OR**

- 9 (a) Write steps to create a module in python.  
(b) Write steps to install a package via PIP.

**UNIT – V**

- 10 Explain how to implement constructor and destructor in python with example.

**OR**

- 11 (a) Describe about various user interfaces available in python GUI library.  
(b) Write a program in python to display any five interfaces on a form.

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