

**II B. Tech I Semester Supplementary Examinations, September - 2021**  
**PYTHON PROGRAMMING**

(Com to CSE & IT)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answer **ALL** the question in **Part-A**  
3. Answer any **FOUR** Questions from **Part-B**
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**PART -A**

1. a) What are IDLE usability features? (2M)
- b) Describe Python jump statements with examples. (2M)
- c) Discuss about tuples in Python. (2M)
- d) Distinguish between local and global variables with examples. (2M)
- e) Define error and exception. Distinguish between these two features. (3M)
- f) Explain about unit testing in Python. (3M)

**PART -B**

2. a) What are 4 built-in numeric data types in Python? Explain. (7M)
- b) Explain the Identifiers, Keywords, Statements, Expressions, and Variables in Python programming language with examples. (7M)
3. a) Describe Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators and Bitwise Operators in detail with examples. (7M)
- b) Explain about string formatting operator with example. (7M)
4. a) Explain the use of join() and split() string methods with examples. Describe why strings are immutable with an example. (7M)
- b) Discuss the relation between tuples and lists, tuples and dictionaries in detail. (7M)
5. a) Describe anonymous functions examples. (7M)
- b) Write a brief note on PIP. Explain installing packages via PIP. (7M)
6. a) Explain inheritance class with suitable example in Python. (7M)
- b) Discuss the following methods of os.path module. (7M)  
a) isfile() b) abspath() c) relpath() d) dirname() e) splitext() f) getmtime()
7. a) What is multithreading? Discuss about starting a new thread. (7M)
- b) Consider a Rectangle Class and Create Two Rectangle Objects. Write Python program to Check Whether the Area of the First Rectangle is Greater than Second by Overloading > Operator. (7M)