

II B. Tech I Semester Supplementary Examinations, July - 2022
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 is the difference between compiled and interpreted languages? (3M)
- b) Using the range function, write a loop that prints numbers from 0 to 57. (2M)
- c) What are mutable and immutable types? (2M)
- d) What is the purpose of lambda functions in Python? (2M)
- e) Write the purpose of stamp( ) method. (3M)
- f) Write Python script that prints calendar of November 2022. (2M)

**PART -B**

2. a) Python variables do not have specific types. Justify this statement with the help of an example. (7M)
- b) Explain the rules for writing identifiers. Write any four keywords in Python. (7M)
3. a) List different operators in Python in the order of their precedence. (7M)
- b) Write a Python program that prints multiplication table of a given number. (7M)
4. a) Write in brief about Sequence in Python. Discuss various operations with suitable examples. (7M)
- b) Explain the Python Dictionary Comprehension with examples. (7M)
5. a) What is the lambda function? Write the characteristics of a lambda function. Explain the same with an example. (7M)
- b) Explain the need for fruitful functions with suitable examples. (7M)
6. a) What s the difference between the else block and the finally block in exception handling? Explain with an example program. (7M)
- b) Write a Python program that overloads plus operator to add two objects of a class. (7M)
7. a) Explain the following: (7M)
  - i) TopLevel widgets
  - ii) Scale widget
- b) Explain unit testing in Python with an example. (7M)