Code No: R1621054 $\boxed{\textbf{R16}}$ $\left(\text{SET - 1}\right)$

II B. Tech I Semester Supplementary Examinations, May - 2019
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?   (2M)

    b) How pass statement is different from a comment?   (2M)

    c) What are mutable and immutable types?   (3M)

    d) What is the purpose of global keyword in Python?   (2M)

    e) How to handle multiple exceptions with single except clause?   (3M)

    f) Write Python script that prints calendar of November 2017.   (2M)

PART -B

2. a) Differentiate between C++ and Python.   (7M)

    b) Give a not on each of the below Python language constructs: (7M)
        (i) quotes (single, double and triple)   (ii) multiline statements (iii) indentation

3. a) List different operators in Python, in the order of their precedence.   (9M)

    b) Write a Python program to compute distance between two points in a 2-   (5M)
        dimensional coordinate system.

4. a) Explain with an example, how + and * operators work with strings.   (6M)

    b) Write a Python program that prints the intersection of two lists. (without using   (8M)
        list comprehension/sets)

5. a) What is lambda function? What are the characteristics of a lambda function?   (7M)
        Give an example.

    b) Write a recursive Python function that recursively computes sum of elements   (7M)
        in a list of lists.
        Sample Input: [1, 2, [3,4], [5,6]]   Expected Result: 21

6. a) What are different types of inheritance supported by Python? Explain.   (8M)

    b) What s the difference between else block and finally block in exception   (6M)
        handling? Explain with an example program.

7. a) Explain about Radiobutton widget in tkinter. How to create two radiobutton   (7M)
        sets (one for gender and another for Indian or not) on the same canvas.

    b) Write a Python program that creates two a demon threads and two non-daemon   (7M)
        threads. Main thread should wait for all other threads to finish.

1 of 1

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