R16

SET - 1

II B. Tech I Semester Supplementary Examinations, May - 2018
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 happens if a semicolon (;) is placed at the end of a Python statement? (2M)

   b) What are membership operators? Give examples for usage. (3M)

   c) What is a dictionary in Python? (2M)

   d) Can a Python function return multiple values? If yes, how it works? (2M)

   e) How to make a Python class member variable hidden from outside the class? (2M)

   f) Write Python program to calculate your age in days. (days between Today and Date of Birth) (3M)

PART -B

2. a) What are different applications of Python? Give examples. (6M)

   b) Write a Python program to convert height in feet and inches to cm. (8M)
   [1 feet = 12 inch and 1 inch= 2.54 cm]
   (Sample input: 2 feet 7 inch   Sample output: 78.74 cm)

3. a) List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity. (7M)

   b) Write a Python program to print all prime numbers less than 256. (7M)

4. a) Write a Python program that interchanges the first and last characters of a given string. (6M)

   b) Give a comparison between lists, tuples, dictionaries and sets. (8M)

5. a) What type of parameter passing is used in Python? Justify your answer with sample programs. (7M)

   b) Write a Python function that prints all factors of a given number. (7M)

6. a) Write a Python program that overloads + operator, to add two objects of a class. (7M)

   b) How to create, raise and handle user defined exceptions in Python. (7M)

7. a) What are regular expressions? How to find whether an email id entered by user is valid or not using Python 're' module. (4M)

   b) Write a Python program that creates a GUI with a textbox, Ok button and Quit button. On clicking Ok, the text entered in textbox is to be printed in Python shell; on clicking Quit, the program should terminate. (10M)