Code No: R1621054   **R16**   SET - 1

II B. Tech I Semester Regular/Supplementary Examinations, October/November - 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) Define the scope and lifetime of a variable in Python. (2M)
   b) Why is * called string repetition operator? (2M)
   c) What are the features of tuple data structure? (3M)
   d) Compare fruitful and void functions. (3M)
   e) Is it possible to convert a class object into a floating type value? (2M)
   f) Give the advantages of multi-threading. (2M)

PART -B

2. a) Python has developed as an open source project. Justify this statement. (7M)
   b) What are identifiers? Discuss the rules to name an identifier. (7M)

3. a) What are the different loop control statements available in Python? Explain with suitable examples. (7M)
   b) Write a Python program that calculates number of seconds in a day. (7M)

4. a) Explain the List Accessing Methods and List Comprehension. (7M)
   b) Write a Python program to read a word and print the number of letters, vowels and percentage of vowels in the word using a dictionary. (7M)

5. a) Describe about variable length arguments with suitable program. (7M)
   b) What are the two ways of importing a module? Which one is more beneficial? Explain. (7M)

6. a) How to implement method overriding in Python? Explain. (7M)
   b) Discuss with an example exceptions with arguments in Python. (7M)

7. a) Write a program for basic web browser using Tkinter which should have a Text widget where the user can enter a URL and a Canvas to display the contents of the page. (7M)
   b) Explain data compression using LZMA algorithm. (7M)

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PART –A

1. a) Define implicit conversion. (2M)

   b) Differentiate between logical and bitwise operators. (3M)

   c) What is cloning of List? (2M)

   d) Give an example for local and global scope of the variables in a function. (3M)

   e) Write the advantages of operator overloading. (2M)

   f) What is the purpose of tracer() method of turtle? (2M)

PART -B

2. a) Describe the features of Python. (7M)

   b) Python variables do not have specific types. Justify this statement with the help of an example. (7M)

3. a) Explain the precedence of operators in Python. (7M)

   b) Write a Python program to find the given year is leap year or not. (7M)

4. a) What is a tuple? How literals of type tuple are written? (7M)

   b) Explain the Python Dictionary Comprehension with examples. (7M)

5. a) Describe about default arguments with suitable program. (7M)

   b) Explain about fruitful functions with examples. (7M)

6. a) Write a Python program to create a histogram from a given list of integers. (7M)

   b) How to create a user defined exceptions? Explain. (7M)

7. a) Explain the methods that are used to synchronize threads. (7M)

   b) Write a menu driven program to create mathematical 3D objects. (7M)

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PART –A

1.	a)	List the rules to name an identifier.	(2M)
	b)	Define chained conditionals.	(2M)
	c)	What is the use of all(), any(), cmp() and sorted() in dictionary?	(3M)
	d)	Write a brief note on PIP.	(2M)
	e)	Differentiate between class variables and instance variables.	(3M)
	f)	Give examples of commonly used widgets.	(2M)

PART -B

2.	a)	Explain about the need for learning Python programming and its importance.	(7M)
	b)	Write a Python program to demonstrate explicit conversion.	(7M)
3.	a)	Explain about Identity operators in Python.	(7M)
	b)	What is the use of pass statement? Illustrate with an example program.	(7M)
4.	a)	Explain the List Slicing and List Mutability.	(7M)
	b)	Discuss the basic Tuple operations with examples.	(7M)
5.	a)	What are the different function prototypes? Explain with suitable examples.	(7M)
	b)	Explain the concept of namespaces with an example.	(7M)
6.	a)	Explain how to implement inheritance in Python.	(7M)
	b)	How to handle an exception using try except block? Explain with the help of a program.	(7M)
7.	a)	What is multithreading? Discuss about starting a new thread.	(7M)
	b)	Write a Python program to move the turtle forward and then backward after a delay of 2 seconds.	(7M)

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PART –A

1. a) Write steps to run a Python script. (3M)

   b) Differentiate between integer and floating point numbers. (2M)

   c) Give an example for List comprehension. (2M)

   d) Define fruitful functions in Python. (3M)

   e) What is class instantiation? (2M)

   f) Which widget is used as a container to house other widgets and add borders? (2M)

PART -B

2. a) How is Python developed and supported? (7M)

   b) What are literals? Explain with the help of examples. (7M)

3. a) Create two sets of integers, and compute their intersection and union by using & and | operator expressions. (7M)

   b) Write a Python program using while loop to print first N numbers divisible by 5. (7M)

4. a) What is Sequence in Python? Explain its operations with suitable examples. (7M)

   b) Write a Python program to illustrate the comparison operators in tuple. (7M)

5. a) List out the types of Modules and Explain any two types in detail. (7M)

   b) Explain installing packages via PIP. (7M)

6. a) How to declare a constructor method in Python? Explain. (7M)

   b) Write a function called *oops* that explicitly raises a *IndexError* exception when called. Then write another function that calls *oops* inside a *try/except* statement to catch the error. What happens if you change *oops* to raise *KeyError* instead of *IndexError*? Where do the names *KeyError* and I*ndexError* come from? (7M)

7. a) Explain various String pattern matching functions in Python. (7M)

   b) Discuss about unit testing in Python. (7M)

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