R16

SET - 1

II B. Tech I Semester Regular/Supplementary Examinations, October/November - 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 immediate mode and script mode?   (2M)

    b) Give the differences between Generator function and a Normal function?   (3M)

    c) What are iterators in Python?   (2M)

    d) What are lambda functions in Python?   (3M)

    e) Give the purpose of stamp( ) method?   (2M)

    f) What is zlib?   (2M)

PART -B
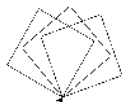
2. a) What is Python? Describe its features and applications?   (7M)

    b) What is IDE? Describe in detail about the functioning of IDLE?   (7M)

3. a) Differentiate between lists and tuples in Python?   (7M)

    b) Explain in detail about Python type conversion and type casting?   (7M)

4. a) What are operators in Python? Describe specifically about identity operator and   (7M)
        membership operator?

    b) Write a python script to print the following pattern?   (7M)

```
    *   *   *   *
      *   *   *
        *   *
          *
```

5. a) Describe the Use of Inheritance in Python?   (7M)

    b) Write in detail about Using Python Packages?   (7M)

6. a) What is Module in Python? Explain, how can you use Modules in your   (7M)
        program explain with an example code.

    b) Explain Python Built-in Exceptions?   (7M)

7. a) Write in detail about Python assert statement?   (7M)

    b) Write a script to draw the following pattern using Turtle?   (7M)

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PART –A

1. a) What is a variable? How it is created and assigned a data type? (2M)

    b) (2M)

```
c = a << 2;      # 240 = 1111 0000

print "Line 5 - Value of c is ", c
```

       Predict the output of the above code?

    c) Explain the syntax of "for- loop"? (2M)

    d) What are generators in Python? (3M)

    e) What is Method Resolution Order? (2M)

    f) How to Write Text with Python Turtle? (3M)

PART -B

2. a) What is interactive Python shell? What is the significance of indentation in writing Python programs? (7M)

    b) What are keywords in Python? Explain the rules for writing identifiers? (7M)

3. a) Write a short note on Python strings? (7M)

    b) Write a small script to illustrate output formatting? (7M)

4. a) Write a script describing all assignment operators in Python? (7M)

    b) Write a Python script to print the following pattern? (7M)

```
      *
    *   *
  *   *   *
*   *   *   *
```

5. Explain three intrinsic sequence types of Python language with examples? (14M)

6. a) What is package in Python? Explain, how can you use package in your program with an example code? (7M)

    b) Explain try except block in detail. (7M)

7. a) Illustrate the internal structure of a typical Python module with the suitable example? (7M)

    b) Write a brief note on pen control methods? (7M)

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PART –A

1. a) Give a short note on assigning values to variables? (2M)

 b) Write a short note on Python escape sequences? (3M)

 c) Compare and contrast IDLE and Spyder? (2M)

 d) Write a short note on dictionary data type in Python? (3M)

 e) Give a short note on indexing and slicing? (2M)

 f) Define time module in Python? (2M)

PART -B

2. a) Give short note on the following? (7M)
  i) Python statement
  ii) Multiline statement
  iii) Python Indentation
  iv) Python comments
 b) Write in detail about the data types in Python? (7M)

3. a) Write a short note on Python sets? (7M)

 b) Write a Python script to find the square root of a number without using built-in functions? (7M)

4. a) Write logical and bitwise operators in detail? (7M)

 b) Write a Python script to check the given string is Palindrome or not? (7M)

5. a) List some of useful math methods/functions? (7M)

 b) Write Data Encapsulation in Python? (7M)

6. a) Write a script illustrating multiple inheritance? (7M)

 b) Elaborate user defined exceptions in Python? (7M)

7. a) What is operator overloading in Python? (7M)

 b) How to do logo design with Turtle? (7M)

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PART –A

1. a) Give a brief note on " Creating Python Variable Names". (3M)

　b) Which is better to use with a print function, double quotes or single quotes? Why? (2M)

　c) Briefly elaborate the data types in Python? (3M)

　d) What are lists? (2M)

　e) Explain the syntax of WHILE-loop? (2M)

　f) Give the purpose of t.speed() *method?* (2M)

PART -B

2. a) Write short note on the following? (7M)
　　　　i) Multiline comments
　　　　ii) Docstring in Python
　　　　iii) Rules and Naming convention for variables and constants.
　　　　iv) Python import statement

　b) Write a program illustrating the use of numeric literals and string literals? (7M)

3. a) Write a short note on Python Dictionaries? (7M)

　b) What are operators in Python? (7M)

4. a) Write a Python script to calculate the area of triangle? (7M)

　b) List some of useful string methods/functions? (7M)

5. a) Give a note on Constructors in Python? (7M)

　b) What is method overriding in Python? (7M)

6. a) Write about Errors and Exception Handling in Python programming? (7M)

　b) How data hiding is achieved in Python? (7M)

7. a) Write a Python code to create an account object with at least two functions? (7M)

　b) Write a program to draw overlapping circles inclined to 30 degrees on the computer screen? (7M)