

**II B. Tech I Semester Regular/Supplementary Examinations, October/November - 2018****PYTHON PROGRAMMING**

(Com to CSE &amp; IT)

Time: 3 hours

Max. Marks: 70

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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 *IndexError* come from? (7M)
7. a) Explain various String pattern matching functions in Python. (7M)
- b) Discuss about unit testing in Python. (7M)