

II B. Tech II Semester Supplementary Examinations, December-2023

PYTHON PROGRAMMING

(Common to EEE & FE)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions each Question from each unitAll Questions carry **Equal** Marks

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## UNIT – I

- 1 a) Write a python script to make use of all type conversion functions. [7M]  
 b) Write a python script to print the following pattern. [7M]

```

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

Or

- 2 a) Describe local and global scope of variables in Python functions. [7M]  
 b) Explain Conditional Statements in python with suitable Example. [7M]

## UNIT – II

- 3 a) What is Dictionary in Python? How is it different from List data type? Explain how for loop can be used to traverse the keys of the Dictionary with an example. [7M]  
 b) Write a Python code illustrating various string handling functions. [7M]

Or

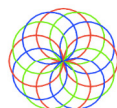
- 4 a) What is String Slicing in python? Write a python script to check given string is palindrome or not. [7M]  
 b) Explain the syntax and flow chart of the following loop statements [7M]  
 (i) for loop (ii) while loop

## UNIT – III

- 5 a) Using date module write a python script to take input as date of birth (DOB) and current date and print the age of the person. [7M]  
 b) Explain installation procedure for packages using PIP with examples. [7M]

Or

- 6 a) Create a calculator module containing add, sub, mul, div and access them. [7M]  
 b) Illustrate a program to draw overlapping circles inclined to 30 degrees using turtle package. [7M]



**UNIT – IV**

- 7 a) Write Python Program to Calculate Area and Perimeter of different Shapes using Polymorphism. [7M]  
b) What is Inheritance? Explain different forms of inheritance supported in Python. [7M]

**Or**

- 8 a) Create a constructor, Method for student class containing student id, name, dept, aggregate and print 3 student details using str(). [7M]  
b) Write a python script to implement Multi-level inheritance. [7M]

**UNIT – V**

- 9 a) Create a user defined Exception named “Funds Less Exception” and raise the exception when there are no enough funds in the bank account. [14]

**Or**

- 10 a) Give the significance of Script, Sprite, Tempo and Events in Scratch Programming. [7M]  
b) What happens if except clause is written without any Exception type? Explain with an example. [7M]