



R20 Regulation

Subject code: 305DA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech V Semester Regular Examinations, January 2023

PYTHON PROGRAMMING

(OPEN ELECTIVE)

(ELECTRONICS AND COMMUNICATION ENGINEERING)

Maximum Marks: 70

Date: 09.01.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What Python uses, static typing or dynamic typing? Justify your answer with an example.
- 2 Why is * called string repetition operator?
- 3 Write a program to check whether the last digit of a number (entered by user) is divisible by 3 or not.
- 4 Write a for loop that prints numbers from 0 to 57, using range function.
- 5 What is the difference between tuples and lists in Python?
- 6 How to create a dictionary in Python?
- 7 What does the slice () function do?
- 8 How to define and call a function in Python?
- 9 Define label widget?
- 10 Explain GUI in python?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. What are identifiers? Discuss the rules for naming an identifier. (5M)
B. Explain Floor-Divide and Assign Operator in Python. (5M)

OR

- 12 List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity. (10M)

- 13 A. Tabulate the different modes for opening a file in detail? (5M)
B. List any five math module functions used in python? (5M)

OR

- 14 A. What is the purpose of an else clause for a loop? Explain how else works with while and for loops, with examples. (5M)
B. Write a Python program that prints the multiplication table of a given number. (5M)

15 A.Explain in detail about dictionaries in Python. (5M)

B. Write a Python program that counts the number of occurrences of a letter in a string, using dictionaries. (5M)

OR

16 A.Discuss about tuples in Python. (5M)

B.What is the use of append () and extend () on a list? (5M)

17 A.Demonstrate implementation of multiple inheritance in Python, with a Program. (5M)

B. Explain the features of Object-Oriented Programming. (5M)

OR

18 A.Distinguish between the Procedural and Object-Oriented Programming. (5M)

B.Demonstrate implementation of Polymorphism in Python with suitable program. (5M)

19 Discuss about Behavior of terminal based programs and GUI-based programs. (10M)

OR

20 Write a Python GUI program to create three radio buttons widgets using tkinter module.? (10M)
