*R20 Regulation* *Subject code: 3P5EB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech V Semester Supplementary Examinations, July 2024

## PYTHON PROGRAMMING

*(CSE)*

***Maximum Marks: 70*** Date:22.07.2024 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.**
**4. Each question carries 10 marks and may have a, b, c, d as sub questions.**

| | Part-A | CO | Bloom Tx |
|---|---|---|---|
| All the following questions carry equal marks (10X2M=20 Marks) | | | |
| 1 | List the features of Python Programming. | CO1 | L1 |
| 2 | Define Variable. | CO1 | L1 |
| 3 | Write the syntax of for loop using range function. | CO2 | L1 |
| 4 | Illustrate Pass Statement in Python. | CO2 | L2 |
| 5 | Define Fruitful Function. | CO3 | L1 |
| 6 | List the different operations that can be performed on Sets. | CO3 | L1 |
| 7 | List the different modes of opening a File. | CO4 | L1 |
| 8 | Explain the usage of import statement. | CO4 | L2 |
| 9 | Define class. Write the syntax for defining a class in python. | CO5 | L1 |
| 10 | How to handle multiple exceptions with single except clause. | CO5 | L1 |
| | Part-B | | |
| Answer All the following questions. (5X10M=50Marks) | | | |
| 11 | Discuss the basic syntax rules and structure of Python. Explain the significance of indentation and how it contributes to the readability of Python code. [10M] | CO1 | L3 |
| | OR | | |
| 12 | A. Write about input/output statements in python with suitable examples. [5M]<br>B. What is an Identifier? Mention the rules to define an identifier. [5M] | CO1 | L1 |
| 13 | Explain the following with an example [4M+3M+3M]<br>i) Arithmetic operators<br>ii) Assignment operators<br>iii) Logical operators | CO2 | L2 |
| | OR | | |
| 14 | A. Write a Python program to accept an integer from a user and find whether it is divisible by both 3 and 7 or not. [5M]<br>B. Differentiate between break and continue Statements. [5M] | CO2 | L3 |
| 15 | A. Define Function. Write a Program to print Fibonacci sequence up to N terms using function. [5M] | CO3 | L3 |

| | | | |
|---|---|---|---|
| | B. Illustrate default Arguments with an example. [5M] | | |
| | OR | | |
| 16 | Compare dictionaries with other data structures in Python, such as lists and sets. [10M] | CO3 | L2 |
| 17 | Describe Python's text file handling, covering methods like `read()`, readline()`, `write()`, and others. Include practical examples to illustrate each operation. [10M] | CO4 | L2 |
| | OR | | |
| 18 | Discuss different functions available in Numpy. [10M] | CO4 | L2 |
| 19 | A. Differentiate between Error and Exception. [5M]<br>B. Define User defined Exception. Write the syntax for creating a user defined Exception in Python. [5M] | CO5 | L4 |
| | OR | | |
| 20 | Explain the features of Inheritance in python with appropriate examples. [10M] | CO5 | L2 |