



R20 Regulation

Subject code:305DA

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

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

### PYTHON PROGRAMMING (ECE)

Maximum Marks: 70

Date:28.12.2024

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 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) |                                                                                             | CO | Bloom Tx |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|----|----------|
| 1                                                               | State any four applications where python is more popular?                                   | 1  | L1       |
| 2                                                               | What are membership operators? Give an example.                                             | 1  | L1       |
| 3                                                               | What is lambda function in python?                                                          | 2  | L1       |
| 4                                                               | Differentiate local variable and global variable                                            | 2  | L1       |
| 5                                                               | How to create list in python? Illustrate the use of negative indexing of list with example. | 3  | L1       |
| 6                                                               | Define a Recursive function.                                                                | 3  | L1       |
| 7                                                               | Define inheritance and list its types                                                       | 4  | L1       |
| 8                                                               | List the difference between procedural and object oriented programming.                     | 4  | L1       |
| 9                                                               | How to create an Array?                                                                     | 5  | L1       |
| 10                                                              | Define Pandas?                                                                              | 5  | L1       |

#### Part-B

| Answer All the following questions. (5X10M=50Marks) |                                                                                                                                                                        | CO | Bloom Tx |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|
| 11                                                  | What are the different loop control statements available in python? Explain with suitable examples. [10M]                                                              | 1  | L3       |
| OR                                                  |                                                                                                                                                                        |    |          |
| 12                                                  | List different operators in python, in the order of their precedence, Explain? [10M]                                                                                   | 1  | L3       |
| 13                                                  | A) What are the different loop control statements available in Python? Explain with suitable examples. [5M]<br>B) Explain about fruitful functions with examples. [5M] | 2  | L3       |
| OR                                                  |                                                                                                                                                                        |    |          |
| 14                                                  | A)List some of useful math methods/functions. [5M]<br>B)Describe about default arguments with suitable program. [5M]                                                   | 2  | L3       |
| 15                                                  | What is dictionary in python? and list out the operations and methods with example. [10M]                                                                              | 3  | L3       |
| OR                                                  |                                                                                                                                                                        |    |          |
| 16                                                  | Briefly explain about recursion and write a python program to find the                                                                                                 | 3  | L3       |

|    |                                                                                 |   |    |
|----|---------------------------------------------------------------------------------|---|----|
|    | factorial of a given numbers without recursion and with recursion. [10M]        |   |    |
| 17 | List out string function in Python Explain with examples. [10M]                 | 4 | L3 |
|    | OR                                                                              |   |    |
| 18 | What are input/output functions of Files in Python explain with examples. [10M] | 4 | L3 |
| 19 | Explain about Numpy in Python with examples. [10M]                              | 5 | L3 |
|    | OR                                                                              |   |    |
| 20 | Explain about Pandas in Python with examples. [10M]                             | 5 | L3 |