



# MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi &amp; Affiliated to JNTUH, Hyderabad)

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II B.Tech I Sem Supply End Examination, July-2022

## Python Programming (CSC, CSD, CSE, CSI, CSM, IT, MECH)

Max. Marks: 70

- Note: 1. Question paper consists: Part-A and Part-B.  
2. In Part – A, answer all questions which carries 20 marks.  
3. In Part – B, answer any one question from each unit.  
Each question carries 10 marks and may have a, b as sub questions.

### PART- A

(10\*2 Marks = 20 Marks)

- |       |  |    |     |     |
|-------|--|----|-----|-----|
| 1. a) | Mention the internal structure of a typical python file/module.          | 2M | C01 | BL1 |
| b)    | What are Augmented, Multiple and Multiple Assignments?                   | 2M | C01 | BL1 |
| c)    | Create a dictionary and display its keys alphabetically?                 | 2M | C02 | BL4 |
| d)    | Write the purpose of chr(), unichr(), and ord() functions with examples? | 2M | C02 | BL1 |
| e)    | Distinguish the open() and file() functions to create file objects?      | 2M | C03 | BL2 |
| f)    | Mention the file related modules?  | 2M | C03 | BL1 |
| g)    | What conclusions can you draw regarding global interpreter lock?         | 2M | C04 | BL1 |
| h)    | What is the difference between try-except and try-finally?               | 2M | C04 | BL1 |
| i)    | What are Tcl, Tk, and Tkinter?   | 2M | C05 | BL1 |
| j)    | Distinguish between thread and process.                                  | 2M | C05 | BL2 |

### PART- B

(10\*5 Marks = 50 Marks)

- |      |  |    |     |     |
|------|--|----|-----|-----|
| 2 a) | Describe the internal types in Python?   | 5M | C01 | BL2 |
| b)   | Can you identify and explain the list of types that are not supported by Python? | 5M | C01 | BL4 |

OR

- |      |  |     |     |     |
|------|--|-----|-----|-----|
| 3    | How would you use the control structures in Python, mention syntax and examples? | 10M | C01 | BL3 |
| 4 a) | Determine all the operators applicable to all sequence types?                    | 5M  | C02 | BL4 |
| b)   | Discuss the dictionary comparison algorithm?                                     | 5M  | C02 | BL3 |

OR

- |   |   |     |     |     |
|---|---|-----|-----|-----|
| 5 | Describe various built-in functions in tuple. | 10M | C02 | BL3 |
|---|---|-----|-----|-----|

- 6 a) Explain the methods read, write and seek on files? 5M C03 BL3  
b) What are command line arguments, and why might they be useful? 5M C03 BL4  
Write python script using command line arguments?

**OR**

- 7 Explain about persistent storage modules. 10M C03 BL6

- 8 a) What are exceptions? Name some exceptions in Python and when do they occur? 5M C04 BL3  
b) Discuss try Statement with Multiple excepts with an example python script? 5M C04 BL4

**OR**

- 9 Develop a python script that runs three recursive functions Fibonacci, factorial, and summation in a single-threaded manner, then performs the same task using threads 10M C04 BL6

- 10 a) Describe the various Tk Widgets used in Python? 5M C05 BL3  
b) Write a GUI program using Tk module? 5M C05 BL4

**OR**

- 11 Explain in detail about threading module. 10M C05 BL3

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