

Code No.: AI503PC

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H.T.No.

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**CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS**

III-B.TECH-I-Semester End Examinations (Supply) - May- 2023

INTRODUCTION TO PYTHON PROGRAMMING

(CSM)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A

(20 Marks)

1. a) Write different types of operators? [2M]
- b) List different types of loops? [2M]
- c) Specify the process of calling a function. [2M]
- d) Explain File input and output. [2M]
- e) Illustrate dictionary in Python programming language. [2M]
- f) Explain the built-in functions in list? [2M]
- g) List different types of inheritance. [2M]
- h) Justify classes created in Python? [2M]
- i) Define widget. [2M]
- j) What is Label. [2M]

PART-B

(50 Marks)

2. Estimate the features of Python programming language in detail. [10M]
- OR**
3. Express an operator and explain about the arithmetic operators and assignment operators in Python with example. [5M]
[5M]
4. Explain about functions with an suitable example program. [10M]
- OR**
5. Discuss about Global Variables and Local variables with examples. [10M]
6. Distinguish different List methods with examples. [10M]
- OR**
7. Define recursion. Give an example program. [10M]
8. Explain in detail about class, objects and methods with suitable examples? [10M]
- OR**
9. What are different types of inheritance supported by Python? Explain. [10M]
10. Explain about Radio button widget in tkinter. How to create two radio button sets (one for gender and another for Indian or not) on the same canvas. [10M]
- OR**
11. Demonstrate GUI-based program coding with an example. [10M]
