

Code No.: AI613OE

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

**III-B.TECH-II-Semester End Examinations (Regular) - May- 2023
PYTHON PROGRAMMING
(MECH)**

[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 and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) What are the various ways of giving input to a program in Python? [2M]
- b) Write the difference between if-else and if elif else statements. [2M]
- c) What is an exception? [2M]
- d) What are Global variables and global constants? [2M]
- e) What is list slicing? [2M]
- f) Write about Data Encryption. [2M]
- g) What are an instance and a class? [2M]
- h) Define Polymorphism. [2M]
- i) How do you take text using widget? [2M]
- j) What is Turtle Graphics? [2M]

PART-B

(50 Marks)

- 2.a) Explain Classification of data types in python? [5M]
 - b) Write a Python program to find the sum of two numbers. [5M]
- OR**
- 3.a) Write a program to print a fibonacci series ? [5M]
 - b) Discuss Program development cycle. [5M]
- 4.a) Write a program for accessing attributes and methods in python. [5M]
 - b) How do you handle exception? Explain. [5M]
- OR**
- 5.a) How to call a function in python? Write a program to create a function . [5M]
 - b) In python how do you access attributes and methods? Explain? [5M]
- 6.a) How to create a string in python and access characters in a string? [5M]
 - b) List the python dictionary methods with examples. [5M]
- OR**
- 7.a) Compare and contrast tuples and list. [5M]
 - b) Discuss built in function dictionaries? [5M]
- 8.a) Does python support multiple inheritances? Write a program illustrating multiple [5M]
 - b) inheritances. [5M]
- OR**
9. Explain the process of creating a class and objects in python. [10M]
10. Write a program to create a Tkinter button inside a Python Turtle. [10M]
- OR**
11. What is GUI? Explain the components widgets, buttons in detail. [10M]
