

Code No.: AI613OE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-II-Semester End Examinations (Supply) - January- 2024
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) List some of the keywords in python. [2M]
- b) Define variables in python. [2M]
- c) Define modules in Python. [2M]
- d) What is the random module function in Python? [2M]
- e) List some of the methods in Tuple Operations. [2M]
- f) Justify the effects of slicing operations on a string. [2M]
- g) Give the syntax for creating an object. [2M]
- h) Give the syntax for creating a class. [2M]
- i) What is meant by Image processing? [2M]
- j) List some of the features of tkinter module in python. [2M]

PART-B

(50 Marks)

2. Explain about Numeric Data Types and Character Sets. [10M]
- OR**
3. Write a Python program using while loop first N numbers divisible by 5. [10M]
 4. Explain about Passing Arguments to Functions. [10M]
- OR**
5. Explain the various features of functions in python. [10M]
 6. Describe the following [10M]
 - i. Creating the List
 - ii. Accessing values in the Lists
 - iii. Updating the Lists
 - iv. Deleting the list Elements.

OR

7. Explain Dictionary Operations & Methods. [10M]

8. Explain the different types of inheritance with suitable examples for each. [10M]

OR

9. List the features and explain about different Object Oriented features supported by Python. [10M]

10. Write a program to demonstrate of organizing Widgets with Frames. [10M]

OR

11. Explain various operations of tkinter module. [10M]
