CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Supply) - December- 2025
PYTHON PROGRAMMING
(ECE)

[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 out the main difference between lists and tuples.	[2M]
b)	Define the scope and life time of a variable in python.	[2M]
c)	Write some built-in attributes related to file object.	[2M]
d)	Write the syntax to open a file for sending in python.	[2M]
e)	How to match ant single number from list of numbers by using regular expressions?	[2M]
f)	Write the difference between process and thread.	[2M]
g)	What is the need of TKinter in python?	[2M]
h)	Write the purpose of pipe and dot symbol used for pattern matching.	[2M]
i)	Write the need of persistent storage.	[2M]
j)	Write about database in python.	[2M]

PART-B   (50 Marks)

2. Write about various data types in python with examples.   [10M]

OR

3.a) Write a python program that prints List and types of Lists.   [5M]

b) Define String? Explain string handling functions in python?   [5M]

4. Explain the following file built-in functions with clear syntax description.   [10M]
   a) open ()   b) file()   c) seek()   d) tell()   e) read()

OR

5. How does try except statement work? Demonstrate with an example python code.   [10M]

6. Explain about regular expressions through module with built in methods related to it. [10M]

OR

7. Briefly explain about thread and threading module objects in python.   [10M]

8. Demonstrate how to build web applications using python's CGI module.   [10M]

OR

9. What is cursor object? Explain TKinter with examples.   [10M]

10. Explain briefly about ORM (Object Relational Managers).   [10M]

OR

11. Explain briefly about DB-API.   [10M]

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