

Code No.: CS7240E

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Supply) – April - 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) What are membership operators.? Give example. [2M]
- b) What are the features of list data structures? [2M]
- c) How to handle multiple exceptions with single except clause? [2M]
- d) What are the uses of file object in python? [2M]
- e) Write about thread module. [2M]
- f) List out various layout managers in python [2M]
- g) How to create label widget in python? [2M]
- h) Write the properties of entry widget. [2M]
- i) Discuss about database programming in python. [2M]
- j) What is dictionary in python? [2M]

PART-B

(50 Marks)

- 2.a. Explain slicing and indexing on list with suitable example. [5M]
- b. Write short note on type conversion. [5M]

OR

3. Write a python program to count number of vowels in the given string. [10M]
4. Explain about usage of pandas on various file formats. [10M]

OR

5. How to create user defined exceptions? Explain with example program. [10M]
6. What is the motivation behind parallelism and state how python achieves parallelism. [10M]

OR

7. Write a python program to point all prime numbers less than 256. [10M]
8. What is the use of list box widget? Give an example to add elements to list box using Tkinter? [10M]

OR

9. Develop a basic web browser using Tkinter which should have a text widget where the user can enter a URL and a canvas to display the contents of the page. [10M]

- 10.a. Explain about python database application programmer's interface. [5M]
b. Explain how database commands and queries are given to a database by
MYSQL [5M]

OR

- 11.a. Briefly explain about object relational mapping (ORM) in python. [5M]
b. Write a python program to create product table (pro-id , pro-name , quantity)
using ORM. [5M]
