Code No.: CS404PC   R20   H.T.No. [ ][8][R][ ][ ][ ][ ]

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II–B.TECH–II–Semester End Examinations (Supply) - July- 2024
PYTHON PROGRAMMING
(Common to CSE, IT)

[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)	Write the features of Python.	[2M]
b)	How lists are updated in Python?	[2M]
c)	What are the uses of file object in Python?	[2M]
d)	Write the syntax to open a file in Python.	[2M]
e)	Write the features of match and search regular expression in Python.	[2M]
f)	List out various layout managers in Python.	[2M]
g)	How to create Label widget in Python?	[2M]
h)	Write the need of Tinker module in Python.	[2M]
i)	Write about declarative mapping.	[2M]
j)	Discuss about database programming 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. a) Write a Python program that prints intersection of two Lists without using Sets.   [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 to create Exceptions? Explain with suitable example.   [10M]

6. Briefly explain about Thread and Threading module objects in Python.   [10M]

OR

7. What is the motivation behind parallelism and state how Python achieves parallelism?   [10M]

8. Give an overview on building Web Application using Python's cgi module.   [10M]

OR

9. What is the use of List box widget? Give an example to add elements to List box using   [10M]
    Tkinter.

10. Describe in detail about SQLAlchemy ORM with a case study of employee role database. [10M]

OR

11. 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]

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