Code No.: R22EC403ES

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-B.TECH-II-Semester End Examinations (Regular) -July- 2024 PYTHON PROGRAMMING

(Common for CSE, IT)

[Time: 3 Hours] [Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 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	(10 Marks)
1. a)	How do you convert a list to a tuple in Python?	[1M]
b)	List any four standard types in Python.	[1M]
c)	How does Python use modules?	[1M]
d)	What is the purpose of the open() function in Python?	[1M]
e)	What is the purpose of the ^ symbol in Python regular expressions.	[1M]
f)	Name a method from the Python threading module used to synchronize threads.	[1M]
g)	What is the purpose of CGI in web development?	[1M]
h)	Which module used in Python for creating graphical user interfaces (GUIs)?	[1M]
i)	What is the primary purpose of database programming?	[1M]
j)	Which module can be used to interact with MySQL databases?	[1M]
	<u>PART-B</u>	(50 Marks)
2.	Discuss the operators in python with suitable examples. OR	[10M]
3.	Explain the concept of sequences in Python, focusing on strings, lists, and tuples.	[10M]
4.	Discuss the various built-in attributes and methods associated with file objec Python.	ts in [10M]
	OR	
5.	Explain how import statements work and how conflicts in namespaces carresolved.	n be [10M]
6.	Discuss the advantages of multithreading in python application with example. OR	[10M]
7.	Explain the role and impact of the Global Interpreter Lock (GIL) on Pyth multithreading capabilities.	non's [10M]
8.	Discuss the basic elements of GUI programming in Python using Tkinter. OR	[10M]
9.	Describe the process of creating a simple web client in Python that interacts APIs.	with [10M]
10.	Explain the structure and core functionalities of the Python DB-API. OR	[10M]
11.	Discuss the concept of Object Relational Mapping (ORM) in Python.	[10M]
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