Code No.: CS724OE

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[10M]

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Supply) - April - 2024 PYTHON PROGRAMMING

(ECE)

[Time	e: 3 Hours] [Max. Mar	ks: 70]
]	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 quest carries 10 marks and may have a, b, c as sub questions.	ion
	PART-A (20	Marks)
1. a) b) c)	What are tuples in Python? What is meant by key-value pairs in a dictionary? How to access the values in strings give an example.	[2M] [2M] [2M]
d) e) f) g)	What is an exception? Explain with few examples. Why does Python need a global interpreter lock? Define thread with an example. Give a brief description of several Built-in attributes related to File object.	[2M] [2M] [2M] [2M]
h)	How to create Label widget in Python?	[2M]
i) j)	What is the basic database for Python? Give its usage. How to query database using Python?	[2M] [2M]
2.	Explain the following file built-in functions and method with clear syntax, description and illustration.	50 Marks) i [10M]
3.a) b)	i) open() ii) file() iii) seek() iv) tell() v)read() OR List and explain few most commonly used built-in types in python. How to declare and call functions in Python programs? Illustrate with an example script.	[5M] [5M]
4.	Write a python program to open a file and check what are the access permissions acquired by that file using os module?	l [10M]
5.a) b)	OR Define file and explain the two categories of files? How to import a module from a package show with an example?	[5M] [5M]
6.a) b)	What is the motivation behind parallelism and state how python achieves parallelism? Explain briefly about thread and threading module objects in Python.	[5M] [5M]
	OR	
7.	What is Global interpreter Lock? Discuss its uses in program.	[10M]
8.	Write a Python GUI program to create Listbox bar widgets using tkinter module. OR	[10M]
9.	Explain the syntax and parameters of the following Widgets using tkinter in Python with appropriate code snippets. i)Scrollable List Box ii)Menu iii)Progress bar	n [10M]
10.	Write a Python program to access the bill details of a customer by accepting customer II from user. Database table will have customer bill details along with customer ID.) [10M]

Draw and explain the architecture of DB-API interface for SQLite Database.