Code No.: CS404PC

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-B.TECH-II-Semester End Examinations (Supply) -June- 2025 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)	List the standard data types in python.	[2M]
b)	What are the rules used for declaring an identifier?	[2M]
c)	List some few common Exception types.	[2M]
d)	What is module and package in Python?	[2M]
e)	Give the features of match and search regular expression function.	[2M]
f)	What are the stages of thread in Python?	[2M]
g)	What is the function of GUI in Python?	[2M]
h)	List the two methods used in CGI programming.	[2M]
i)	What is API and REST API in Python?	[2M]
j)	Write the purpose of Django ORM.	[2M]
$\underline{PART-B} \tag{50 Marks}$		
2.a)	List out various operators available in Python and explain their precedence associativity.	and [5M]
b)	Write a python program to calculate the total amount to be paid by user after reduction the 10% discount on purchases more than 1000 rupees.	eing [5M]
	OR	
3.a)	What Is a Function Routine? Write a Python function that prints all factors of a gi number.	ven [6M]
b)	Write a python script to perform swapping of two numbers without using the variable.	nird [4M]
4.a)	How to create, raise and handle user defined exceptions in Python.	[6M]
b)	Briefly explain various operations on text files.	[4M]
	OR	
5.	Write a python program to illustrate the cases where a try block throws mult exceptions.	iple [10M]
6.	Write a Python program that creates two a demon threads and two non-daer threads. Main thread should wait for all other threads to finish. OR	non [10M]
7.a)	Differentiate threads and process used in python.	[5M]
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b)	Explain briefly about special symbols and characters used in regular expression.	[5M]

8. Explain the syntax and parameters of the following Widgets using tkinter in Python [10M] with appropriate code snippets. i) Scrollable List Box. ii) Menu. iii) Progress bar. OR 9. Compare the GUI-based programs with Terminal-based programs. [10M] Draw and explain the architecture of DB-API interface for SQLite Database 10. [10M]OR 11. Write a python script for the following [10M] i) Create a table. ii) Insert a command. iii) Reading the data.

iv) Update the records.