

Code No.: CS404PC

R20

H.T.No.

8

R

**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**

**II-B.TECH-II-Semester End Examinations (Regular) - August- 2023**  
**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) Explain built-in functions in Python? [2M]
- b) Define List in Python? [2M]
- c) Explain open() in Python? [2M]
- d) Define module? [2M]
- e) What is regular expression? Explain with an example [2M]
- f) Define thread? [2M]
- g) Explain Label widget? [2M]
- h) Explain Button widget? [2M]
- i) Explain persistent storage? [2M]
- j) What is database? Write a sql query to create a database [2M]

**PART-B**

**(50 Marks)**

2. State and explain the features of Python in detail? [10M]
- OR**
3. What is operator? Explain various types of operators in detail with an appropriate example? [10M]
4. Differentiate standard and Built-in datatypes with examples? [10M]
- OR**
5.
  - i. What is exception? Explain different types of exceptions? [10M]
  - ii. Write a python program to copy the contents of a file to another file.
6. Write a python program to determine the following. [10M]
  - i. Factorial of an Integer.
  - ii. Fibonacci Series.
- OR**
7. Discuss the following in detail. [10M]
  - i. Global Interpreter Lock.
  - ii. Accessing threads from python.
8. Explain client/server environment in detail in python? [10M]
- OR**
9. State and explain various types of Tk widgets? [10M]
10. Explain ORM in detail? [10M]
- OR**
11. Discuss DB-API in detail? [10M]

\*\*\*\*\*