

Code No.: CS724OE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023
PYTHON PROGRAMMING
(ECE)

[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) State any four applications where python is more popular. [2M]
- b) How lists are updated in Python? [2M]
- c) What are the uses of File object? [2M]
- d) Give a brief description of several Built-in attributes related to File object. [2M]
- e) Give the features of match and search regular expression function. [2M]
- f) What are the stages of thread in Python? [2M]
- g) List out standard built-in exceptions. [2M]
- h) What is the need of Tkinter module in python? [2M]
- i) Write the SQL commands/statements used for creating, using and dropping a database. [2M]
- j) State the need of persistent storage. [2M]

PART-B

(50 Marks)

2. Summarize various operators, built-in functions and standard library modules that deals with Python's numeric type. [10M]
- OR**
3. What is Dictionary? Explain Python dictionaries methods in detail. [10M]
- 4.a) How does try-except statement work? Demonstrate with an example python code. [5M]
 - b) Illustrate the concept of importing module attributes in python scripts. [5M]
- OR**
5. Write a program to append the content of the first file to the second file. Read the file names as command line arguments. [10M]
6. Illustrate common regular expression symbols and special characters used in Python. [10M]
- OR**
7. Examine how python supports regular expressions through the're' module with brief introduction and various built-in methods related to it. [10M]
8. Give an overview and demonstration of building web applications using python's cgi module. [10M]
- OR**
9. Write a program for student registration form using GUI? [10M]

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

OR

- 11.a) What is a cursor object? Explain various methods and attributes of cursor object. [5M]
b) Explain about the Python Database Application Programmer's Interface (DB-API). [5M]
