

II- Mid Semester Exam Apr 2024

Branch: CSE-3rd Sem CS-304

Time 1:30 Hrs

Max. Marks 20

Note: All questions are compulsory and have internal choice.

Ques.1(a): (i) What is a lambda function? Provide a simple example.

(ii) Write a Python program using a lambda function to sort a list of tuples based on the second element. (CO3-7)

OR

Ques.1(b): Write Explain the concept of recursion in Python. Write a Python program to solve the Tower of Hanoi problem using recursion. (CO3-7)

Ques .2(a): Discuss the different methods available in the random module. Write a program to simulate a simple dice roll using the random module. (CO4-7)

OR

Ques. 2.(b): Explain the different access modes in file handling with examples. Write a program to demonstrate reading from a file in different modes. (CO4-7)

Ques.3(a): Write and explain SQL queries to demonstrate the use of DML commands (INSERT, SELECT, UPDATE, DELETE). (CO5-6)

OR

Ques.3(b): Compare and contrast DBMS and RDBMS. Provide examples to support your explanation. (CO5-6)