FYCS/SEM II/EXT/Advanced Python Programming

Marks:75 Time: 2½ hrs. 1. All questions are compulsory with internal choice. Note: 2. Draw neat diagrams wherever necessary. 3. Figures to the right indicate full marks. Answer the following (any FOUR) Q.1 (20)(a) Explain any five methods in OS Module. (b) Write a short note on date time module. (c) Differentiate between process and thread. (d) Explain various file opening modes in Python. (e) What is regular expression? State and explain any five regular expression patterns. (f) Write a Python program to Count the total number of uppercase characters in a Q.2 Answer the following (any FOUR) (20)(a) Compare and contrast TCP and UDP. (b) Explain any five built-in exceptions in Python. (c) Write a short note on Layout Manager in tkinter. (d) Explain Entry widget provided by tkinter module. (e) What is the use of a raise statement? Write a code to accept two numbers and display the quotient. Appropriate exception should be raised if the user enters the second number (denominator) as zero. (f) Write a Python code to create a table in MySQL. Answer the following (any FOUR) (20)Q.3 (a) Define Inheritance. Explain types of Inheritance in Python with syntax of each (b) Write a note on operator overloading in Python. (c) What is abstract method and abstract class? How to define abstract method in Python? (d) Explain different access modifiers in Python. (e) Write a Python program to create a calculator class. Include methods for basic arithmetic operations. (f) Write a Python class which has two methods get_String and print_String. get_String accepts a string from the user and print_String prints the string in upper case. **Q.4** Answer the following (any FIVE) (15)(a) Write a note on seek and tell method. (b) What is dead lock in threading? (c) Explain any three socket methods in Python. (d) What is assert statement and how it is used in Python? (e) Write a Python program to demonstrate constructor. (f) Write a note on Destructor in Python.