

**CHRIST (Deemed to be University), Bengaluru – 560 029**  
**Department of Computer Science**  
**DEPARTMENT LEVEL EXAMINATION – MARCH 2024 (MODEL QUESTIONS)**  
**UG V Semester**

**Programme Name: BCA**

**Max. Marks: 30**

**Course Name: Python Programming-II**

**Time: 1 Hr.**

**Course Code: BCA471**

**General Instructions:**

- All rough work should be done in the answer script. Do not write or scribble in the question paper except your register number.
- Verify the Course code / Course title & number of pages of questions in the question paper.
- Make sure your mobile phone is switched off and placed at the designated place in the hall.
- Malpractices will be viewed very seriously.
- Answers should be written on both sides of the paper in the answer booklet. No sheets should be detached from the answer booklet.
- Answers without the question numbers clearly indicated will not be valued. No page should be left blank in the middle of the answer booklet.

**Course Outcomes (COs):** The students will able to

- **CO1:** Apply Object Oriented concepts in Python
- **CO2:** Develop GUI applications and Web applications using the Tkinter and Web Frameworks
- **CO3:** Analyze the data using Pandas and NumPy libraries

**SECTION A**

**Answer ALL the questions**

**5 X 2 = 10**

Q. No	Questions	CO	RBT
1	Explain the difference between C++, Java and Python Class with E.g.	1	L1
2	Identify the use of Regular Expression. - Meta Characters with E.g.	1	L2
3	Outline the steps for implementing different types of inheritance in a Python program.	1	L3
4	Create a Python function to validate IPv4 (E.g. 192.168.100.100) addresses using regular expressions. The function should check if the given string represents a valid IPv4 address.	1	L6
5	Create instances of the Stock class and Simulate price changes over time using classes and objects.	1	L6

**SECTION B**

**Answer any TWO questions.**

**2 X 5 = 10**

6	How to use combination of different layout styles in Tkinter GUI?	2	L1
7	Analyze your own strategy for building a multipurpose Tkinter app using minimal code.	2	L4
8	Create a tkinter app code that runs a function when you click a button; it should apply different styles such as colors, fonts, etc.	2	L6