Section D

8. Explain GUI components in Python. Discuss frames, dialogs and layout management. **14**

9. Explain exception handling in Python. Discuss different types of errors and their handling. **14**

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(T) Roll No. .....

PAPER ID—10710

B. Tech. EXAMINATION, 2026

(Second Semester)

OBJECT-ORIENTED CONCEPTS AND PYTHON PROGRAMMING

Time : 3 *Hours* *Maximum Marks :* 70

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Section. Q. No. **1** is compulsory. All questions carry equal marks.

1. Write the following : 7×2=14

(a) Define variable assignment.

(b) What is a string index ?

(c) Define Tuple.

(d) What is Recursion ?

(e) Define Polymorphism.

(f) What is try block ?

(g) What is tkinter module ?

Section A

2. Explain string manipulation techniques including indexing, slicing and file handling. 14

3. Explain file operations in Python. Discuss reading, writing and CSV file handling. 14

Section B

4. Explain list operations including insertion, deletion, searching and sorting. 14

5. Explain dictionaries in Python. Discuss operations on keys and values. 14

Section C

6. Explain class design and data modeling in Python. 14

7. Explain abstraction and inheritance. Discuss method overriding with examples. 14