

B.C.A Semester - 5 (Remedial) (NEP-2020) Examination**March/April-2026****Programming in Python (Minor-5)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer following Questions (Any Two) (10)
- (1) Write short note on Python Conditional Statements.
 - (2) Explain Python features and Installation steps.
 - (3) Explain Python user defined functions with example.
 - (4) Write short note on Python looping statements with example.
- Que.2 Answer following Questions (Any Two) (10)
- (1) Explain Python String, Lists and Tuples with example.
 - (2) Explain functions to do pattern matching & RegEx package with example.
 - (3) Write short note on Text Processing.
 - (4) Explain how to write data in file and how to read it.
- Que.3 Answer following Questions (Any Two) (10)
- (1) What is Exception? Explain Exception as a control flow mechanism.
 - (2) Explain Abstract Data type and classes with example.
 - (3) Write short note on Inheritance and types of inheritance.
 - (4) Explain selection sort and bubble sort.
- Que.4 Answer following Questions (Any Two) (10)
- (1) Explain Tkinter Button, Checkbutton & Listbox with example.
 - (2) Explain Tkinter Paned Window and message box.
 - (3) Explain Numpy library functions with example.
 - (4) Explain OpenCV Image functions with example.
- Que.5 Answer following Questions (Any Two) (10)
- (1) Explain Python Modules with example.
 - (2) Explain Python's sets and dictionary with example.
 - (3) Explain linear and binary search algorithm.
 - (4) Explain Plotly Express(px) functions.
