

2024

Time : 3 hours

Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

*Answer from **all** the Groups as directed.*

(Python Programming)

Group – A

(Objective Type Questions)

1. Select the correct answer of the following :

1×5 = 5

(a) Which type of Programming does Python Support ?

- (i) Object Oriented Programming
- (ii) Structural Programming
- (iii) Functional Programming
- (iv) All of these

(b) Which of the following is the correct extension of Python file ?

(i) .python

(ii) .pl

(iii) .py

(iv) .p

(c) Which keyword is used for function in python language ?

(i) function

(ii) def

(iii) fun

(iv) define

(d) All keywords in Python are in _____.

(i) Capitalized

(ii) Lower case

(iii) Upper case

(iv) None of these

(e) What will be the output of the following Python Statement ?

```
>>> "a" + "bc"
```

(i) bc

(ii) abc

(iii) a

(iv) bca

2. Fill in the blanks of the following : $1 \times 5 = 5$

- (a) Python has _____ function to output data to be a standard output device.
- (b) User defined function uses def keyword.
- (c) Python has many predefined function called _____ function.
- (d) The _____ statement is used for decision making.
- (e) _____ and _____ are two modes of Python.

Group – B

(Short-answer Type Questions)

3. Answer any **four** questions of the following :

$$5 \times 4 = 20$$

- (a) Define the features of Python.
- (b) Explain the various operators supported in Python.
- (c) Differentiate between Errors and Expectations in Python.
- (d) Differentiate between lists and tuples.

- (e) Write a program in Python to find the first 'n' number in fibonacci series.
- (f) Write a program in Python to check whether an Integer is an Armstrong number or not.

Group – C

(Long-answer Type Questions)

4. Answer any four questions of the following :

$$10 \times 4 = 40$$

- (a) Write a program in Python to check whether a number is Palindrome or not.
- (b) Write a program in Python to check given number is prime or not.
- (c) Explain the types of Errors in Python.
- (d) Differentiate between calling function and creating function with example.
- (e) Write a Python Program to accept a number from Keyboard and test whether a number is even or odd.
- (f) What are Local variable and Global variable in Python ?

