

COPYRIGHT RESERVED

Voc(Sem-III) —
BCA (5)

2021

Time : 3 hours

Full Marks : 50

*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.

Group – A

(Objective Type Questions)

1. Select the correct answer of the following :

1×5 = 5

(a) Who developed Python Programming
Language ?

- (i) Wick van Rossum
- (ii) Rasmus Lerdorf
- (iii) Guido van Rossum
- (iv) Niene Stom

BW – 11/3

(Turn over)

(b) Which type of programming does Python support ?

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

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

- (i) .python
- (ii) .pl
- (iii) .py
- (iv) .p

(d) What will be the value of the following Python expression ?

$4+3\%5$

- (i) 7
- (ii) 2
- (iii) 4
- (iv) 1

BW - 11/3

(2)

Contd.

(e) Which keyword is used for function in Python language ?

- (i) function
- (ii) def
- (iii) fun
- (iv) define

2. Fill in the blanks of the following :

$1 \times 5 = 5$

(a) Python has _____ function to output data to a standard output device.

(b) Python has many predefined function called _____ functions.

(c) The _____ statement is used for decision making.

(d) The process of identifying and removing logical errors and runtime errors is called _____

(e) User defined function uses _____ keyword.

Group - B

(Short-answer Type Questions)

3. Answer any four questions of the following :

$3 \times 4 = 12$

(a) Define the features of Python.

BW - 11/3

(3)

(Turnover)

- (b) Explain the various operators supported in Python.
- (c) Write a program that counts the number of lower case characters, upper case characters and digits entered by user.
- (d) Differentiate between Errors and Exceptions in Python.
- (e) Write a Python program to implement is Palindrome () function to check given string is Palindrome or not.
- (f) Differentiate List and Tuple in Python.

Group - C

(Long-answer Type Questions)

Answer any four questions of the following :

7×4 = 28

4. (a) Write a program in Python to display the following pattern :

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```

- (b) Write a Python program to accept a number from keyboard and test whether a number is even or odd.
- (c) Explain the User Defined Function with the help of a programme in Python.
- (d) What is a Built in function that Python uses to iterate over a number sequence.
- (e) Differentiate between calling function and creating functions with example.

- (f) Explain the following :

- (i) Drawing using turtle
- (ii) Classical Cipher
- (iii) GUI Programming

_____ ❖ _____