

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2022
(Fourth Semester)

Branch – NETWORKING AND MOBILE APPLICATIONS

PYTHON PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 1 = 10)

- 1 Is Python code compiled or interpreted?
 - (i) Python code is both compiled and interpreted
 - (ii) Python code is neither compiled nor interpreted
 - (iii) Python code is only compiled
 - (iv) Python code is only interpreted
- 2 What will be the value of the following Python expression? $4 + 3 \% 5$
 - (i) 7
 - (ii) 2
 - (iii) 4
 - (iv) 1
- 3 Python supports the creation of anonymous functions at runtime, using a construct called _____.
 - (i) pi
 - (ii) anonymous
 - (iii) lambda
 - (iv) runtime
- 4 Function blocks begin with the keyword?
 - (i) define
 - (ii) fun
 - (iii) function
 - (iv) def
- 5 Index value in string should be of type _____.
 - (i) Float
 - (ii) Integer
 - (iii) Boolean
 - (iv) String
- 6 Which command is used to add an element in List named L1?
 - (i) L1.add(4)
 - (ii) L1.append(4)
 - (iii) L1.new(4)
 - (iv) L1.append(2)
- 7 _____ is used to create an object.
 - (i) class
 - (ii) constructor
 - (iii) User-defined functions
 - (iv) In-built functions
- 8 Which of the following is a Python tuple?
 - (i) [1, 2, 3]
 - (ii) (1, 2, 3)
 - (iii) {1, 2, 3}
 - (iv) {}
- 9 Which of the statements about a dictionary is false?
 - (i) The values of a dictionary can be accessed using keys
 - (ii) The keys of a dictionary can be accessed using values
 - (iii) Dictionaries aren't ordered
 - (iv) Dictionaries are mutable
- 10 To open a file c:\scores.txt for appending data, we use _____.
 - (i) outfile = open("c:\scores.txt", "a")
 - (ii) outfile = open("c:\scores.txt", "rw")
 - (iii) outfile = open(file = "c:\scores.txt", "w")
 - (iv) outfile = open(file = "c:\scores.txt", "w")

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a) List the standard data types in python.
(OR)
b) Demonstrate input() function in python.
- 12 a) Discuss the use of functions.
(OR)
b) Explain return statement.
- 13 a) Describe immutable strings.
(OR)
b) Outline the concept of accessing the elements of the list.
- 14 a) Examine method overriding.
(OR)
b) Discuss tuple () function.
- 15 a) Discuss Nested dictionaries.
(OR)
b) Describe the needs of file handling.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

- 16 a) Enumerate Internal working on python.
(OR)
b) Explain decision statements in python.
- 17 a) Explain parameters and arguments in function.
(OR)
b) Examine the concept of Recursive functions.
- 18 a) Demonstrate String operations.
(OR)
b) Outline the concept of list slicing.
- 19 a) Explain inheritance.
(OR)
b) Give an overview of python set operations.
- 20 a) Demonstrate the concept of creating a dictionary.
(OR)
b) Describe Binary files.

Z-Z-Z

END