

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023
(Second Semester)

Branch – COMPUTER SCIENCE WITH DATA ANALYTICS

PYTHON PROGRAMMING

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which of the following is used in python to make a single line comment?
(i) / (ii) /*
(iii) // (iv) #
- 2 What is the name of variable defined outside of a function in Python?
(i) local variable (ii) static variable
(iii) global variable (iv) automatic variable
- 3 Identify the total of all the elements of the tuple?
(i) Total() (ii) Sum()
(iii) Sum_total() (iv) Add()
- 4 Which function is use to close a python file?
(i) stop() (ii) end()
(iii) close() (iv) closefile()
- 5 When a child class inherits from only one parent class, it is called?
(i) single inheritance (ii) multiple inheritance
(iii) singular inheritance (iv) multilevel inheritance

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the eval() function in Python.
OR
b Show the importance of while loop statement.
- 7 a Analyze the lambda function with example.
OR
b Summarize the various string operations in Python.
- 8 a How to create a list with suitable example?
OR
b Explain the usage of zip() function.

Cont...

- 9 a Describe the various set operations in Python programming.
OR
b Narrate the usage of nested dictionaries in Python.
- 10 a Develop a Python program with constructor.
OR
b Explain the working principle of method overloading.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Examine the functionalities of character set in python with suitable example.
OR
b Discuss the various decision making statements in python.
- 12 a Identify the features of recursive function in Python with an example.
OR
b Highlight the importance of immutable strings in Python programming.
- 13 a Analyze the different ways of creating list and how to access the elements in a list with suitable example.
OR
b Discover the following functions which operates on tuples in python with suitable examples.
a) pop()
b) len()
c) count()
- 14 a Identify the function's related to dictionaries with examples.
OR
b Discuss the various operations carried on a file.
- 15 a Write a python program to display welcome to PSG College by using classes and objects.
OR
b Discover the features of inheritance in Python programming.

Z-Z-Z

END