

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(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 one is NOT a legal variable name?
(i) `_myvar` (ii) `Myvar`
(iii) `my_var` (iv) `my-var`
- 2 Which predefined Python function is used to find length of string?
(i) `length()` (ii) `len()`
(iii) `strlen()` (iv) `stringlength()`
- 3 State that the Tuples are _____.
(i) Mutable (ii) Immutable
(iii) Mutable to some extent (iv) None of the above
- 4 Which is use to write a string into a file?
(i) append mode (ii) read and write mode
(iii) write mode (iv) read mode
- 5 What is Instantiation in terms of OOP terminology?
(i) Deleting an instance of class (ii) Modifying an instance of class
(iii) Copying an instance of class (iv) Creating an instance of class

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a) Show the Boolean datatypes with example code.
OR
b) Narrate the Inbuilt functions in python with example.
- 7 a) Classify Global and Local of a variable with suitable code.
OR
b) Bring out the Recursive function in python.
- 8 a) Compare and differentiate List and tuples with example
OR
b) Explain indexing and Slicing.
- 9 a) Summarise set operations in python.
OR
b) Show the methods of dictionary in python.
- 10 a) Explain class and objects of OOPs in python.
OR
b) Narrate Constructor and Destructor.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a) Summarise decision control statements. Give syntax with examples.
OR
b) Classify loop control statements. Give syntax with examples.
- 12 a) Trace Arguments and parameters in function with example.
OR
b) Discuss various String operations.
- 13 a) Summarise creating and accessing list in python. Give examples.
OR
b) Discuss List operations with example program.
- 14 a) Discuss nested dictionaries , how to access elements in it?
OR
b) Summarise creating, accessing, changing values in dictionaries.
- 15 a) Highlight OOPs concept in python with examples.
OR
b) Point out operator overloading in python with example.

Z-Z-Z

END