

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 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 Python language was developed by _____.
(i) Guido van Rossum (ii) Niene Stom
(iii) Wick van Rossum (iv) Zim Den
- 2 _____ will be the output of below Python code.
str1= "Synopsis"
str2=str1.replace('s', 'S')
print(str2)
(i) synopsis (ii) Synopsis
(iii) SynopSiS (iv) synopsis
3. Suppose list1 is [4, 11, 22, 33,34,35], What is list1[-1]?
(i) Error (ii) None
(iii) 4 (iv) 35
4. If a={4,6,8}, what happens when a.add(4) is executed?
(i) a={4,4,6,8} (ii)Error as there is no add function for set data type
(iii) a={4,6,8} (iv) Error as 4 already exists in the set
5. In python, what is method inside class?
(i) attribute (ii) object
(iii) argument (iv) function

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain python data types with relevant examples.
OR
b Narrate about eval() function with python program.
- 7 a Explain local and global scope of variables with python example.
OR
b Elucidate recursive function in python with an example.
- 8 a Write a detail note on accessing elements of list with example program.
OR
b Differentiate between zip() and inverse zip(*) with python program.
- 9 a With relevant python program explain set in and not in operator.
OR
b Explicate the working of file handling with relevant python program.
- 10 a Describe special class attributes with relevant python program.
OR
b How method overloading is handled in python? Explain with an example program.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

11 a Explain loop control statements in python with appropriate examples
OR

b Narrate about python inbuilt functions.

12 a Explain various string operations with relevant python code.
OR

b Elucidate lambda function with example.

13 a How do you split a string into multiple strings in python? Explain with example.
OR

b Outline on the tuple built-in functions with example.

14 a With relevant python program explain formatting dictionaries.
OR

b Explicate the methods of dictionary class in python.

15 a Describe passing an object as parameter to a method with python script.
OR

b Explain types of inheritance with relevant python program.

Z-Z-Z

END