PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – COMPUTER TECHNOLOGY

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 to define a block of code in Python language?
      (i) Indentation   (ii) Key
      (iii) Brackets   (iv) All of the mentioned

2.   Which of the following is not a core data type in Python programming?
      (i) Tuples   (ii) Lists
      (iii) Class   (iv) Dictionary

3.   A _____ is a sequence of immutable objects
      (i) Tuples   (ii) Lists
      (iii) Class   (iv) Dictionary

4.   Suppose B is a subclass of A, to invoke the __init__ method in A from B, what is the line of code you should write?
      (i) A.__init__(self)   (ii) B.__init__(self)
      (iii) A.__init__(B)   (iv) B.__init__(A)

5.   Identify the right way to close a file
      (i) File.close()   (ii) close(file)
      (iii) close("file")   (iv) File.closed

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6   a   Examine Tuples in Python.
                        OR
    b   Classify Multiple Statements on a single Line.

7   a   Produce Appending in Python String.
                        OR
    b   How do you Access values in Lists?

8   a   Prepare an Object in Python.
                        OR
    b   Discuss Nested Dictionaries.

9   a   How do you inherit a class in Python?
                        OR
    b   Classify Complex Objects.

10 a   Write a syntax for Opening a file.
                        OR
    b   State the Else Clause.

SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 x 6 = 30)

11 a Elaborate the types of Selection / Conditional Branching Statements with flowchart.

OR

  b Distinguish the Function Call with Function Parameters.

12 a Highlight the Basic List Operations.

OR

  b Point out Built-in String Methods and Functions.

13 a Trace Class Method and Self Arguments.

OR

  b Infer Adding and modifying an item in a dictionary.

14 a Elucidate the types of Inheritance in Python.

OR

  b Outline about Operator Overloading with Example program.

15 a Examine Multiple Exceptions in Single Block.

OR

  b Differentiate the Types of Files in Python.

Z-Z-Z   END