PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fifth 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 logical operator is used to simultaneously evaluate two conditions.
    - (i) AND
    - (ii) OR
    - (iii) NOT
    - (iv) XOR

2. Identify that string is a sequence made up of one or more ---
    - (i) Strings
    - (ii) Characters
    - (iii) Words
    - (iv) Sentences

3. Which data structure does not allow duplicate Values?
    - (i) List
    - (ii) Tuple
    - (iii) Dictionary
    - (iv) Set

4. Indicate that the concept of inheritance is used to implement relationship.
    - (i) is-a
    - (ii) was-a
    - (iii) has-a
    - (iv) in-a

5. Which keyword is used to generate an exception.
    - (i) Throw
    - (ii) Raise
    - (iii) Generate
    - (iv) Try

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

6. a Outline the need of range() function.
OR
   b Summarise the need for Functions in Programs.

7. a Narrate that Strings are Immutable.
OR
   b Apply the Basic Tuple operations.

8. a Bring out the Difference between a list and a Dictionary.
OR
   b Show the need of Garbage Collection

9. a Describe about Method Overriding.
OR
   b Apply '+' operator Overloading on a class student that has attributes name and marks.

10. a Narrate the kinds of errors.
OR
    b How to handle Exceptions?

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

11   a   Discuss about Decision Control Statements.
                 OR
    b   Categorize the operators used in python.

12   a   Outline the Built-in String Methods and Functions.
                 OR
    b   Discover the Advantages of Tuple over list.

13   a   Explain the way of creating a Dictionary and then Adding, Modify items in it.
                 OR
    b   Explain with Examples.
        1. Public and Private data Members.
        2. Private Methods.

14   a   Discuss about Operator Overloading and its Advantages.
                 OR
    b   Explain in detail about types of Inheritance.

15   a   Examine the Built-in Exceptions.
                 OR
    b   Discover the way of using Except Block without Exception.

Z-Z-Z   END