PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – **COMPUTER APPLICATION**

PYTHON FOR COMPUTER APPLICATIONS

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 the correct extension of the python file?
    i) .python   ii).pi
    iii).py   iv) .p

2. Which of the following character is used to give single-line comments in Python?
    i)//   ii) #
    iii) !   iv) /*

3. Which of the following functions is a built-in function in python?
    i)seed()   ii) sqrt()
    iii) factorial()   iv)print()

4. How many except statements can a try-except block have?
    i) Zero   ii) one
    iii) more than one   iv) more than zero

5. _____is used to store the values in keys and pairs.
    i) set   ii)map
    iii)dictionary   iv) tuple

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

6   a)   Apply briefly in computer algorithms.
                         OR
    b)   Explain the data types used in Pyton.

7   a)   Deveolp the concept of list?How do you create it?
                         OR
    b)   Explain conditional branching with example.

8   a)   How to define a function in python?
                         OR
    b)   Illustrate on recursion function in python.

9   a)   Summarize Turtile attributes in Pyton.
                         OR
    b)   Explain the concepts of reading and writing a textfile in pyton.

10 a)   Explain dictionary in python.
                         OR
    b)   Explain the concept of encapsulation.

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

11 a)   Examine in features of python programming language.
OR
   b)   Elucidate in detail about operators in python.

12 a)   Elucidate the significance of for loop with else in an example.
OR
   b)   Point out any five string methods with an example program.

13 a)   Discuss about calling and returning values in python with example.
OR
   b)   Write a python program using functions to check whether a number is even or odd.

14 a)   Distinguish the following operations with example.
i)INSERT ii) UPDATE iii)DELETE iv)READ
OR
   b)   Discuss any four built in exceptions with relevant example.

15 a)   Justify set datatype in python.
OR
   b)   Analyze the concept of inheritance with example.

Z-Z-Z   END