PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch -SOFTWARE SYSTEMS
(Five year integrated)

PROGRAMMING IN PYTHON

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks!
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1   What is the output of the following code?
     print *9112.*
     (i)   4   (ii) 4.0
     (iii) 4.5   (iv) error

2   Which of these is not a core data type?
     (i)   lists   (ii) dictionary
     (iii) tuples   (iv) class

3   What is the output of the expression?
     Round (5.5678,2)
     (i)   5.5   (ii) 5.6
     (iii) 5.56   (iv) 5.57

4   What is the output of the expression 3* 1**3.
     (i)   1   (h) 3
     (iii) 9   (iv) 27

5   Suppose LI is [3,4,5,20,1]. What is LI after Ll.pop(l)
     (i)   [3,4,5,20]   (ii) [3,5,20,1]
     (iii) [1,4,5,20]   (iv) [4,5,20,1]

6   What data type is the object below?
     L=[5,20,'welcome']
     (i) Array   (ii) Dictionary
     (iii) List   (iv) Tuple

7   What will be the output?
     Dictl={"Ragul":25, "Dinesh":20}
     "Ragul" in dictl
     (i) True   (ii) False
     (iii) None   (iv) Error

8   Which of the following is a python tuple?
     (i)   [1,2,3]   (ii) (1,2,3)
     (iii) {1,2,3}   (iv) {}

9   When is the finally block executed?
     (i)   when there is no exception
     (ii) when there is an exception
     (iii) only if some condition that has been specified is satisfied
     (iv) Always

10   How do you create a window?
      (i) window=newWindow()   (ii) window=Window()
      (iii) windo w=Frame()   (iv) window=Tk()

SECTION - B (25 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 5 = 25)

11 a Explain the features of Python.
                          OR
   b Discuss input and output statements in Python.

12 a Explain how to pass parameters to functions in Python.
                          OR
   b Explain random module function with relevant example.

13 a Illustrate with example the string operators used in Python.
                          OR
   b Prepare a Python program to traverse and append elements in list.

14 a Justify how tuples are important in Python.
                          OR
   b Discuss the file operations in python with example.

15 a Write a program to handle multiple exceptions.
                          OR
   b Explain frame widget with example.

SECTION -C (40 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 8 = 40)
Question no. 16 is compulsory

16   Construct a Python program to find the sum of 'N' numbers.

17 a Elucidate math functions in Python with relevant examples.
                          OR
   b Develop a python code to find 'n' prime numbers.

18 a Explain string functions in python with example.
                          OR
   b Discuss list functions and methods with relevant example.

19 a Differentiate dictionary and tuples with example program.
                          OR
   b Develop a python program to update and delete elements from dictionary.

20 a Differentiate between errors and exception handling in python.
                          OR
   b Design an application form using python GUI tools.
                    Z-Z-Z   END