PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc(SS) DEGREE EXAMINATION DECEMBER 2023
(Fifth Semester)

Branch – **SOFTWARE SYSTEMS** (five years Integrated)

PROGRAMMING IN PYTHON

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1. The _____ runs code and echoes results as you go, but it doesn't save your code in a file.
   - (i)   Interactive Prompt
   - (ii) Compiler
   - (iii)   IDLE
   - (iv) none of the above

2. Which of the following is an Augmented assignment statement?
   - (i) spam='Spam
   - (ii) a, *b='Spam'
   - (iii) spams +=42
   - (iv) a,b,c,d = 'spam,

3. _____ is simply set to a list of user-defined and platform-specific names of directories that contain Python code files.
   - (i) PYTHONPATH
   - (ii) Lists
   - (iii) Tuple
   - (iv) Dictionaries

4. _____ serve as instance factories.
   - (i) Instances
   - (ii) Tuples
   - (iii) Classes
   - (iv) Objects

5. A _____ statement that does not include an exception name or extra data value simply reraises the current exception.
   - (i) try   (ii) except   (iii) raise   (iv) files

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

6   a.   What is IDLE user interface?

   Or

   b.   Write short notes on Numeric type basics.

7   a.   Write the syntax of 'While loop' with an example.

   Or

   b.   Sketch the importance of 'Functions'.

8   a.   Explain about the Python program structure.

   Or

   b.   Discuss namespaces.

9. a.   Write short notes on Classes in python.

   Or

   b.   Write a program to create a valid empty class by name Students.

10. a.   Write a simple program which illustrates handling exception.
        Or
   b.   Which method is used to read the contents of a file which is already created? Explain in detail.

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

11. a.   Analyze Dictionaries in Python with examples.
        OR
    b.   Assess the fundamentals of string in python.

12. a.   Explain about Python statements.
        OR
    b.   Write a python program to demonstrate functions.

13. a.   Write a program to convert a given number into binary number.
        OR
    b.   Appraise packages in python with an example.

14. a.   What is the different between a class object and an instance object? Explain.
        OR
    b.   Explain different types of inheritance in Python.

15. a.   Describe about handling exceptions in detail.
        OR
    b.   Explain in detail about python files.

Z-Z-Z   END