STELLA MARIS COLLEGE (AUTONOMOUS)   CHENNAI 600 086
(For candidates admitted during the academic year 2023 – 2024)

POST GRADUATE DIPLOMA IN COMPUTER SCIENCE, NOVEMBER 2023
FIRST SEMESTER

COURSE   : MAJOR CORE
PAPER   : PROGRAMMING WITH PYTHON
SUBJECT CODE : 23CS/DC/PP14
TIME   : 1 ½ HOURS

MAX. MARKS: 50

SECTION A
Answer all the questions   **(5 X 2 = 10)**
  1. Define named constants.
  2. Write the method required to draw any two shapes using turtle.
  3. Differentiate keyword and positional arguments.
  4. What is multidimensional list?
  5. What is dictionary?

SECTION B
Answer any FOUR of the following questions   **(4 X 5 = 20)**

  6. Explain the various types of assignment operators in Python.
  7. Describe the different formatting function for numbers in Python with examples.
  8. Identify the various kinds of arguments in the function. Explain it with an example.
  9. Illustrate the various operations defined in lists.
  10. Write a Python program to perform Insertion sort with an example.
  11. Discuss the various operations in a file along with its syntax.

SECTION C
Answer any TWO of the following   **(2 x 10=20)**

  12. Summarize the various types of looping constructs. Apply the looping construct to find the sum of digits of a given number.
  13. Justify that binary search is more efficient than linear search. Explain
  14. Compare the usage of lists, tuples data type? Give an example for each data type

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