PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(Second Semester)

Branch -**SOFTWARE SYSTEMS**
(Five year integrated)

DATA STRUCTURES

Time: Three Hours   Maximum: 75 Marks

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

1   a What is data structure? Explain.
                                OR
    b Discuss about sparse matrices with example.

2   a Explain in details about bubble sort with example.
                                OR
    b Describe sequential search with example.

3   a Examine dynamic memory allocation with example.
                                OR
    b Write down doubly linked list,

4   a Discuss about stack.
                                OR
    b Elaborate linked queue with example.

5   a What is tree? Explain.
                                OR
    b Write down binary tree traversal.

SECTION -B (45 Marks)
Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 15   45)

6   Briefly explain about string processing.

7   Explain about radix sort with example.

8   Write down traversing in list with example.

9   Discuss about priority queue with example.

10   Explain about graph representation.

Z-Z-Z   END