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S.E. (Comp.) (First Semester) EXAMINATION, 2017
DATA STRUCTURES AND ALGORITHMS
(2015 PATTERN)

Time : Two Hours

Maximum Marks : 50

1. (a) Show that $f(x) = O(x^3)$ if function $f(x)$ is defined as
 $f(x) = 5x^2 + 6x^2 + 1$ [3]
(b) Differentiate between linear and non-linear data structure with example. [3]
(c) Explain divide and conquer strategy with example. Also comment on the time analysis. [6]
- Or*
2. (a) Explain fast Transpose of sparse matrix with suitable example. Discuss time complexity of fast transpose. [6]
(b) Explain polynomial representation using arrays with suitable example. [3]
(c) Derive recurrence relation to represent set of natural numbers giving remainder one when divided by three. [3]
3. (a) Represent the following polynomial by using generalized linked list : [3]
 $(a, b (c, d (e, g.), h) (f))$
(b) Write an algorithm for postfix evaluation with suitable example. [6]
(c) Write a pseudo C code to reverse singly linked list. [3]

P.T.O.

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**Frank Goldhammer, Ronny
Scherer, Samuel Greiff**



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