Assignment 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. Identify the correct statement:
(a) The LMS-based adaptive filter can be updated recursively.
(b) The LMS-based adaptive filter may not converge.
(c) The LMS-based adaptive filter may or may not converge.
(d) The LMS-based adaptive filter may or may not converge.
(e) The LMS-based adaptive filter may or may not converge.

2. The convergence speed of the Delayed-LMS algorithm with a win LMS will be:
(a) higher, (b) lower, (c) slower, (d) dependent on filter order.

3. In a 2-dimensional space, an edge of the original graph with 0-indexed will produce delay six edges if:
(a) ≤ 5, (b) ≤ 4, (c) ≤ 3, (d) ≤ 2.

4. If a loop with loop delay w is unblocked by a factor 2, the number of possible loop delays unblocked by:
(a) 2^w, (b) w^2, (c) min(w, 2), (d) max(w, 2).

5. After unblocking the DFG shown below, it is returned to minimize the critical path. Then, the critical path will be:
(a) 20 u.s., (b) 30 u.s., (c) 40 u.s., (d) 50 u.s.