Assignment 1

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

1) In a DFG, the delay of each path is denoted. Will the critical path
(a) increase, (b) decrease, (c) remain same, (d) increase or decrease depending
on the DFG.
   (a) (b) (c) (d)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (a)

2) Two N x N matrices A and B are multiplied to produce C = AB.
The dimensions of the resulting DG will be
(a) 2 (b) 3 (c) N (d) 2N.
   (a) (b) (c) (d)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (d)

3) The critical path of the following linear phase FIR filter is
   (a) six adder, (b) four multipliers, (c) one multiplier and one adder, (d) four multipliers and six adder.
   (a) (b) (c) (d)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (d)

4) If the above digital filter is transposed, the critical path becomes equal to
   (a) four adders and one multiplier, (b) three adders and one multiplier, (c) four multipliers and three adders, (d) four multipliers and six adders.
   (a) (b) (c) (d)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (a)

5) Which of the following is NOT true?
   (a) pipelining can be used to reduce critical path in a DFG (b) a DG is always pipelined (c) inter-iteration dependence results in increase of critical path, (d) DG is preferred in area processing due to regularity of structures.
   (a) (b) (c) (d)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: (b)