Week 4: Assignment 4

Due on SDS-09-04, 11:59 PM

1. F Odd-Even Filter (OEF) is a type of:
   a) Finite Automaton
   b) Programmable Automation
   c) Fuzzy Logic
   d) None of the above

2. Which statement is incorrect?
   a) Odd-Even Filter (OEF) has no delay.
   b) Even inputs result in odd output.
   c) Even-Even inputs result in an odd output.
   d) Odd-Even filter is a zero-IF filter.

3. Odd-Even Filter (OEF) is used for:
   a) Speech coding
   b) Audio compression
   c) Video compression
   d) Image processing

4. The basic operation of the Odd-Even Filter (OEF) is:
   a) X + (x - 1)
   b) X - (x - 1)
   c) X - (x + 1)
   d) X + (x + 1)

5. Which of the above statements is incorrect?
   a) X + (x - 1) is an odd-odd input.
   b) X - (x - 1) is an even-even input.
   c) X - (x + 1) is an even-odd input.
   d) X + (x + 1) is an odd-even input.

6. Which of the above statements is incorrect?
   a) Even inputs result in odd output.
   b) Even-Even inputs result in an odd output.
   c) Odd-Even inputs result in an odd output.
   d) Odd-Even filter is a zero-IF filter.

7. Which of the above statements is incorrect?
   a) X + (x - 1) is an odd-odd input.
   b) X - (x - 1) is an even-even input.
   c) X - (x + 1) is an even-odd input.
   d) X + (x + 1) is an odd-even input.