**14-a:**

Yes

**14-b:**

Yes

**14-c:**

Yes

**14-d:**

No

**15-a:**

Let X1 and X2 be two Boolean variables, and y is the output

AND：y = sgn ( X1 + X2 - 1.5 )

OR：y = sgn ( X1 + X2 - 0.5 )

**15-b:**

If a linear function is used as the activation function of a multilayer neural network, then the output will also be a linear function, which will degenerate into a perceptron.