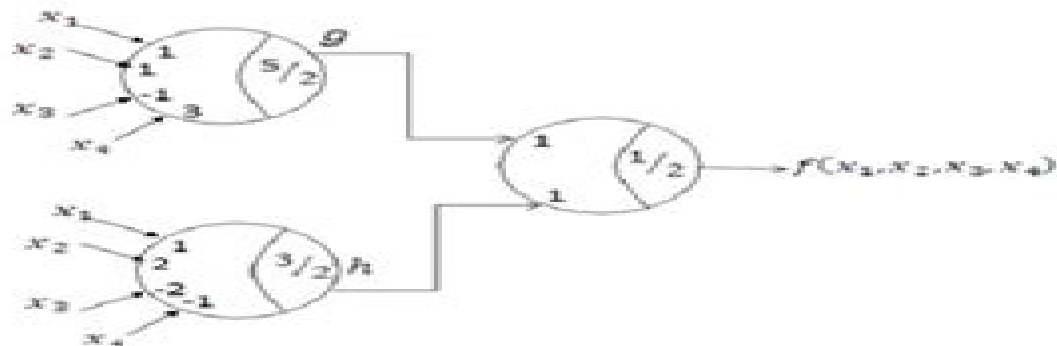


# DIGITAL SWITCHING AND LOGIC DESIGN

## QUESTION BANK

### CHAPTER1: Threshold Logic

- Q1. Is it possible to design EX-OR gate with a single threshold element? Justify your answer.
- Q2. Let  $f(x_1, x_2, x_3) = \sum(0,1,3)$ . Realize it using a threshold element.
- Q3. What are the various capabilities of threshold logic?
- Q5. Determine whether the function  $f(x_1, x_2, x_3, x_4) = \sum(0,1,3,4,5,6,7,12,13)$  is a threshold function, and, if it is, find a weight-threshold vector.
- Q6. By examining the linear inequalities, determine which of the following functions is a threshold function, and for each one that is, find the corresponding weight-threshold vector.
- $f_1(x_1, x_2, x_3) = \sum(1,2,3,7)$
  - $f_1(x_1, x_2, x_3) = \sum(0,2,4,5,6)$
  - $f_1(x_1, x_2, x_3) = \sum(0,3,5,6)$
- Q7. Determine the function  $f(x_1, x_2, x_3, x_4)$  realized by the network as shown in fig below.



# Digital Logic Design Question Bank Pdfslibforme

**Arshad Iqbal**



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