

### Practice Problem on Combinational Circuit Testing

1. For the combinational circuit shown in Figure 1, use Boolean difference method to determine the test vectors to detect the following faults:
  - a. f stuck-at-0
  - b. h stuck-at-1
  - c. b stuck-at-0
  - d. b1 stuck-at 1
2. For the combinational circuit shown in Figure 1, use one dimensional path sensitization method to determine the test vectors to detect the following faults:
  - a. f stuck-at-0
  - b. h stuck-at-1
  - c. b stuck-at-0
  - d. b1 stuck-at 1
3. For the combinational circuit shown in Figure 1, use the recursive algorithm (with PROPAGATE and JUSTIFY functions) with D-algebra to determine the test vectors to detect the following faults:
  - a. f stuck-at-0
  - b. h stuck-at-1
  - c. b stuck-at-0
  - d. b1 stuck-at 1

