1. (20 points) (Bushnell and Agrawal) Problem 14.4

2. (20 points) Consider the figure 14.16 in the textbook. Draw the S-graph for the circuit and identify the flip-flop to be scanned so that all cycles are broken. Redraw the circuit with the scan circuitry and also draw the circuit that will be used by a test generator for the circuit with scan.

3. (20 points) (Bushnell and Agrawal) Problem 15.2.
   Is the polynomial generated reducible or irreducible? If it is reducible, give its factors.

4. (20 points) (Bushnell and Agrawal) Problem 15.13.

5. (20 points) (Bushnell and Agrawal) Problem 15.16, only do faults f s-a-0 and B-g s-a-0.

6. (not for credit but must do problem) (Bushnell and Agrawal) Problem 16.3.