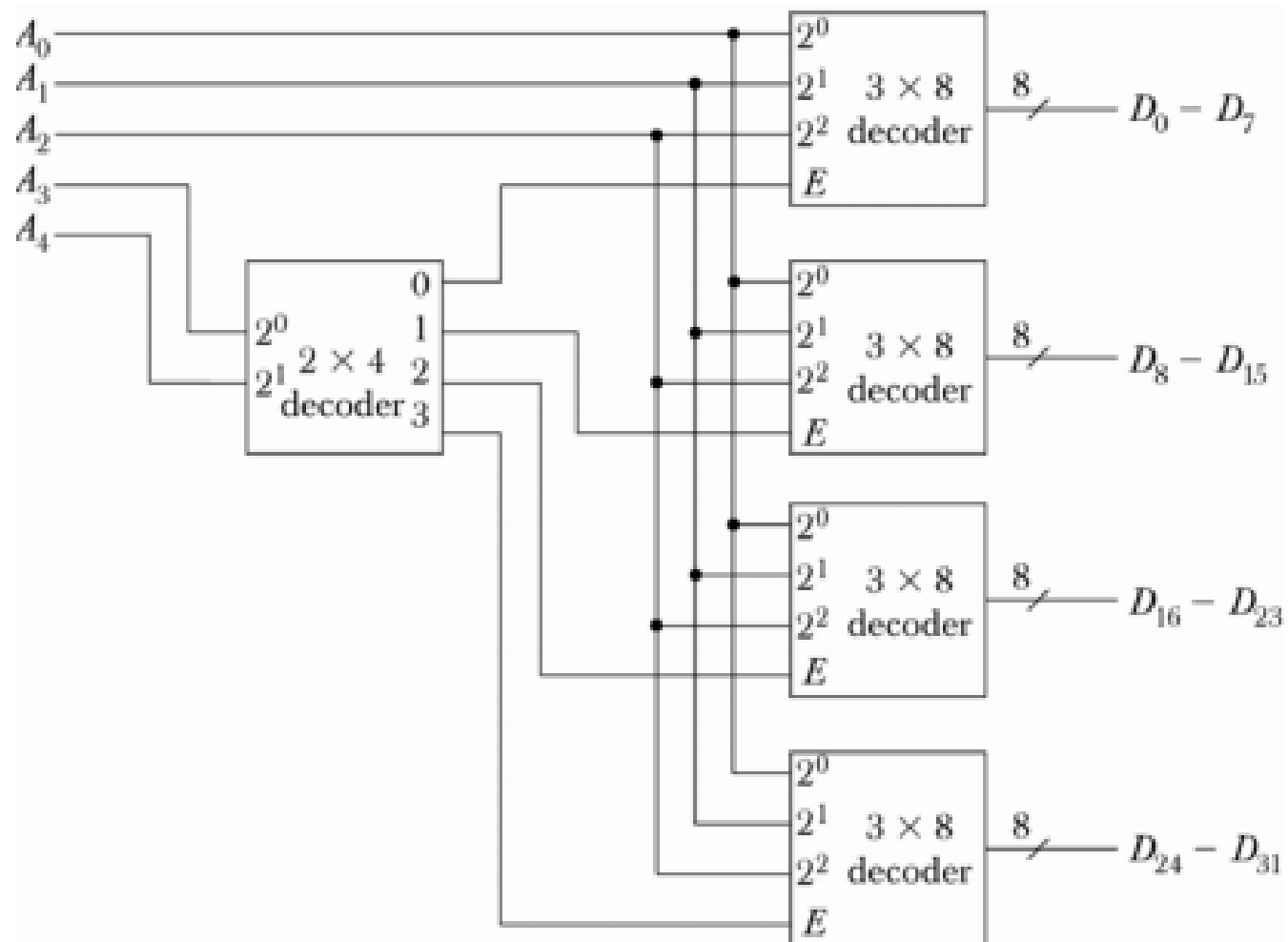
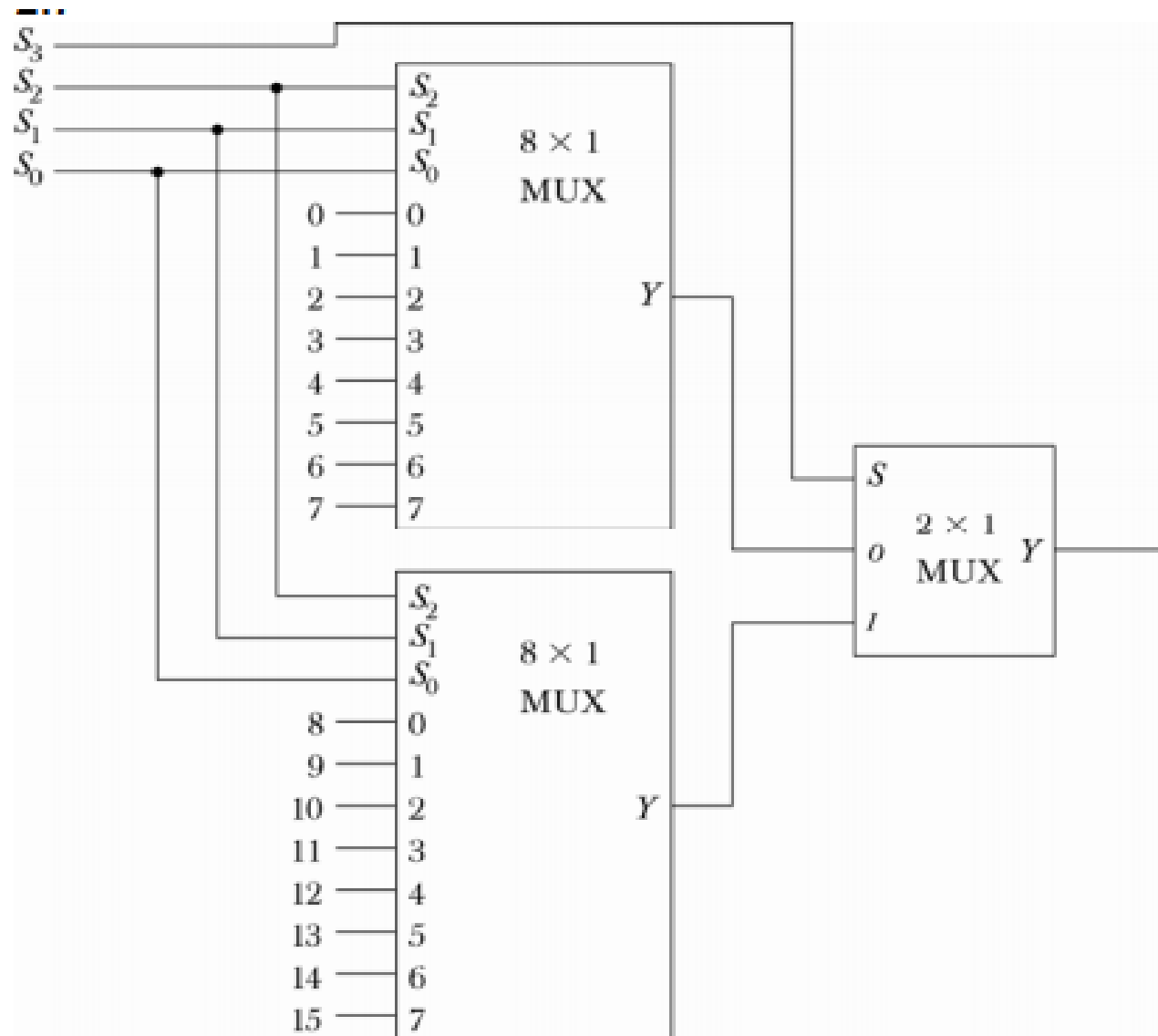


# Practice Questions

1. Construct a 5-to-32 line decoder with four 3-to-8 line decoders with enable and 2-to-4 line decoder.

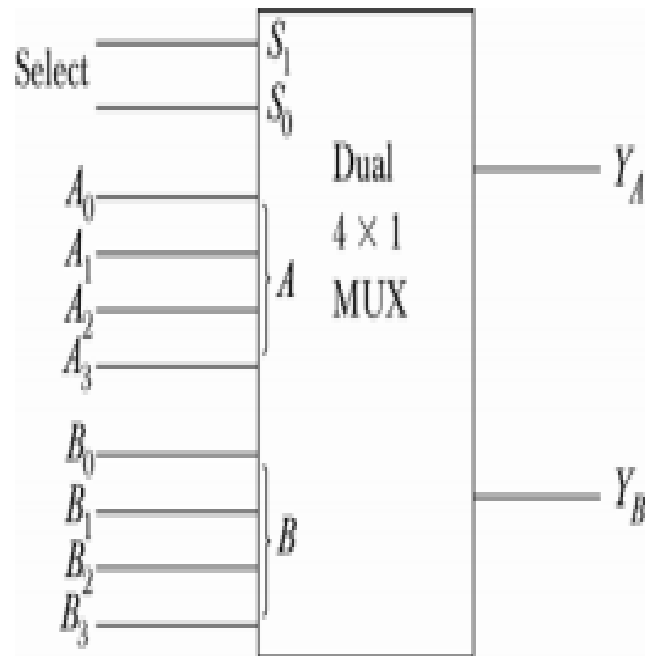


2. Construct a 16-to-1 line multiplexer with two 8-to-1 line multiplexers and one 2-to-1 line multiplexer. Use block diagram for the three multiplexers.



3. Draw the block diagram of a dual 4-to-1 line multiplexers and explain its operation by means of a function table.

2.4



$S_1 S_0$	$Y_A Y_B$
0 0	$A_0 B_0$
0 1	$A_1 B_1$
1 0	$A_2 B_2$
1 1	$A_3 B_3$

Function table

4. What is the purpose of buffer gate in the clock input of the register.
5. The content of a 4-bit register is initially 1101. The register is shifted six times to the right with the serial input being 101101. What is the content of the register after each shift.



