Córdova Pichardo Francisco Uziel

1- acd

2- c

3- a

4- b

5- bd

6- d

7- abc

8- d

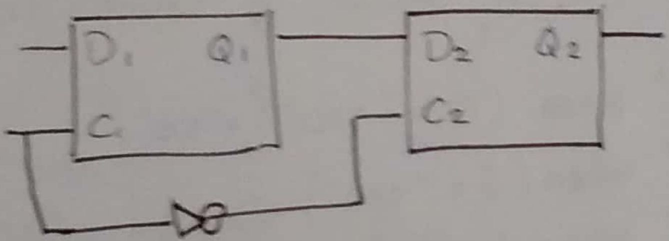
9- c

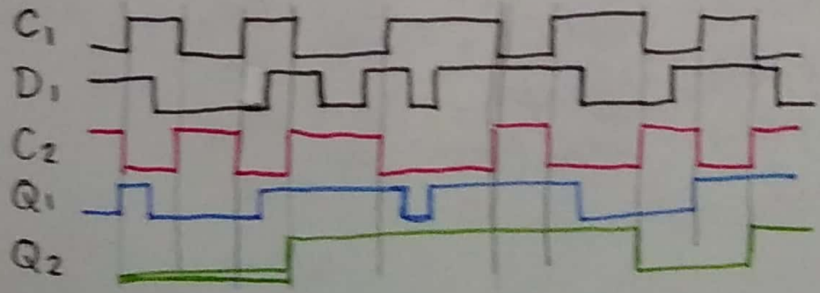
10- b

ⓐ (5pts) C_2

ⓑ Q_1

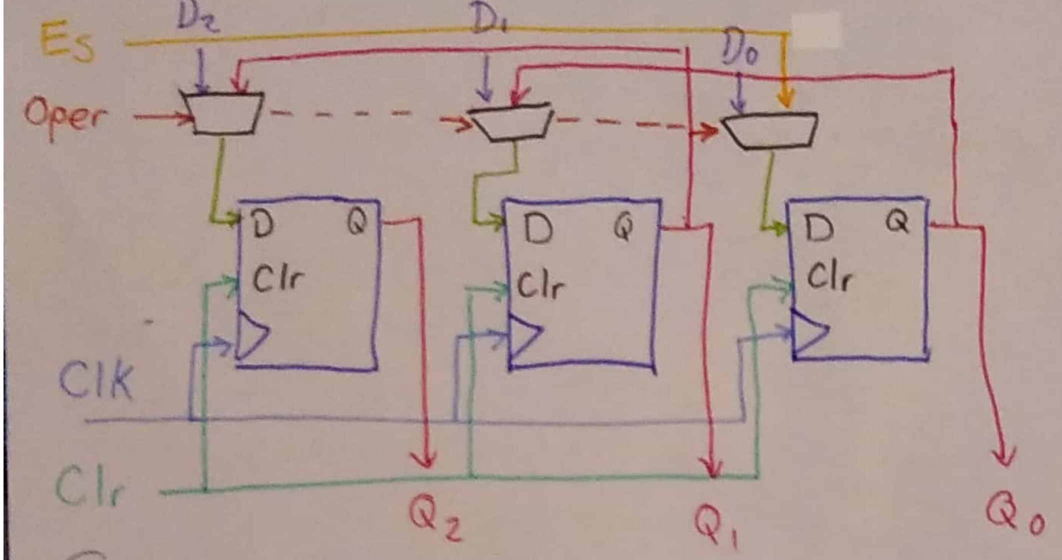
ⓒ Q_2





a)

Oper	Operacion
0	Carga
1	Corrimiento a la izquierda



b) Convertidor de codigo Anodo si tomamos Q : std_logic_vector(2 downto 0)

```
display <= "0000001" when (Q = "000") else
           "1001111" when (Q = "001") else
           "0010010" when (Q = "010") else
           "0000110" when (Q = "011") else
           "1001100" when (Q = "100") else
           "0110100" when (Q = "101") else
           "0100000" when (Q = "110") else
           "0001111" when (Q = "111") else
           "0000000";
```

Escaneado con CamScanner

```
library ieee;
Use iee.std_logic_1164.all;
entity Examen is port
(
 es Oper, ClK, Clr : in std_logic;
    D : in std_logic_vector(2 downto 0);
    display : out std_logic_vector (6 downto 0)
 );
end Examen;
architecture AExamen of Examen is
 signal Q : std_logic_vector(3 downto 0);
 begin
      process (clK, clr)
      begin
         if (clr = `1´) then
             Q<= "000";
         elsif (rising-edge(clK)) then
             if (oper = `0´) then
                Q <= D;
             elsif (oper = `1´)then
                 for i in 0 to 2 loop
                     if (i>0) then
                        Q(i) <= Q(i-1);
                     end if;
                 end loop;
             end if;
         end if;
      end process;
 -- Convertidor de codigo
```

Escaneado con CamScanner

```
-- Convertidor de Codigo
   display <= "0000001" When (Q = "000") else
              "1001111" When (Q = "001") else
              "0010010" When (Q = "010") else
              "0000110" When (Q = "011") else
              "1001100" When (Q = "100") else
              "0110100" When (Q = "101") else
              "0100000" When (Q = "110") else
              "0001111" When (Q = "111") else
              "0000000";
end AExamen;
```

Escaneado con CamScanner