Q1. Convert:

d.
$$(1011.001)_2 = (\dots)_{10}$$

e.
$$(0.65625)_{10} = (\dots)_2$$

f.
$$(2AB)_{16} = (....)_2$$
 (3)

Q2.write VHDL code for the function Y = A.B.C

(2)

Q3.Design F= (A.B) +(C.D) using CMOS

Q4. Find:

- c. 1's complement of 10011011
- d. 2's complement of 10011110

(1)

Q5. Explain:

- c. Fan out
- d. Power dissipation

(2)