Q1. Convert:

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

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

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

Q2. write VHDL code for the function Y= A.B.C   (2)

Q3. Design F= $\overline{(A.B) + (C.D)}$ using CMOS .   (2)

Q4. Find :

    c. 1's complement of 10011011

    d. 2's complement of 10011110   (1)

Q5. Explain :

    c. Fan out

    d. Power dissipation   (2)