Logic Design CH5

Q1

POS = ((C+D)(B'+C))'+((B+D)(A+B+C'))'

SOP =C'D +B''C'+B'D'+A'B'C''

=C'D +B&&C'+B'D'+A'B'C

A diagram of a computer

Description automatically generated

Q2

a. (𝐴 + 𝐶) (𝐶𝐷 + 𝐴𝐶)

ACD + AAC + CCD + CAD = ACD +AC + CD + CAD

b. 𝐵𝐶 + 𝐷𝐸(𝐵𝐶’ + 𝐷𝐸)

BC + DEBC’ + DEDE = DE + BC

Q3