Machabeonics 2nd Minor 5th Semester, Mechanical Engineering 1) Derive amplification formulas for Inventing Amplifier, Non inverting amplifier, Difference amplifier and 10 Consider following touth-table A B C 0 0 0 0 Find boolean expression for Sar well as C wing product - of sums method and sum-of products method. 3) Design a boolean circuit for a security protection System. Alarm should sound if someone breaks into house through a door on window or if romething is moving around in the house while the occupants are away. Write Quasilogie statements, boolean enpression, touth table and boolean circuit (using only AND gates/Not gates).