Problem 5 (13 points) Given two Boolean functions **F_1=B'D+A'B'+C'D** and **F_2=A'D'+BC'+BD'**
(a). (9 points) Find a minimum two-level multiple-output AND-OR circuit to realize **F_1** and **F_2**;
(b). (4 points) Convert the realized circuit to a minimum two-level NOR-NOR circuit.