Additional problems:

A1: What is the advantage that the pure Aloha gives you over the slotted Aloha in addition to the synchronization requirement?

No fixed packet size, ability to start transmission at anytime and does not need to do synchronization.

A2: Only in certain scenario, the CSMA/CD outperforms slotted Aloha, what is the scenario?

For Small values of $a=t_{prop} R/L$, as 'a' increases, the reaction time for CSMA/CD increases, hence, the performance suffers. However, Slotted Aloha's performance is not affected because it does not dependent on 'a.'