(a) X-ray diffraction patterns for different samples labeled CVD1200, CVD1218, CVD1214, CVD1199, CVD1198, and CVD1196. Peaks for Zn$_2$N$_2$ (440) and ZnO (100), (002), and (101) are indicated.

(b) X-ray diffraction patterns for samples CVD1226, CVD1225, and CVD1218 with different growth times $t_n$: 180 min, 120 min, and 60 min, respectively. Peaks for ZnO (100), (002), and (101) are noted.