

a) $\{A, B, C, D\}$ $\{A, C\}$ $\{A, D\}$
 $\{A, C, D\}$ $\{A, B, D\}$ $\{A, B, C\}$

b) $\{A, C\}$ and $\{A, D\}$ (minimal subsets of possible superkeys)

$\{A, C\}$ is definitely a candidate key since it is a superkey of R .

$\{A, D\}$ may not be since $\{A, C\}$ already grants uniqueness.

2. W, Y, Z

3.