If $S$ and $A$ disjoint then $S$ cant be equal to $A$ because a intersection with $A$ is not empty. $B$ is also disjoint to $S$ then $S$ cant be equal to $B$.

Suppose that $S=C$ but intersection of $B$ and $C$ is equal to $\{3,5,7,9\}$. so $S$ and $B$ are not disjoint. We get contradiction.

Suppose that $S=D$ then intersection of $D$ and $A$ is $\{102\} /$ so $S$ and $A$ are not disjoint. We get contradiction. And finaly if $S=E$ then intersection of $A$ and $S$ equals to empty set and intersection of $B$ and $S$ equals to empty set. So $E$ can equal to $S$.

Correct answer is e) E .

