

Q5c

$F = \{AB \rightarrow CE, ACD \rightarrow B, BE \rightarrow CF, AC \rightarrow DE, BF \rightarrow A\}$

STEP1 let RHS single

$\{AB \rightarrow C, AB \rightarrow E, ACD \rightarrow B, BE \rightarrow C, BE \rightarrow F, AC \rightarrow D, AC \rightarrow E, BF \rightarrow A\}$

Step2 remove  $AB \rightarrow C$  since redundant FD

$\{AB \rightarrow E, ACD \rightarrow B, BE \rightarrow C, BE \rightarrow F, AC \rightarrow D, AC \rightarrow E, BF \rightarrow A\}$

Step2 remove  $AC \rightarrow E$  since redundant FD

$\{AB \rightarrow E, ACD \rightarrow B, BE \rightarrow C, BE \rightarrow F, AC \rightarrow D, BF \rightarrow A\}$

Step3 change  $ACD \rightarrow B$  into  $AC \rightarrow B$  since redundant attributes in ACD

$\{AB \rightarrow E, AC \rightarrow B, BE \rightarrow C, BE \rightarrow F, AC \rightarrow D, BF \rightarrow A\}$