Chapter 6, Solution 21.

$4\mu F$ in series with $12\mu F = (4x12)/16 = 3\mu F$
$3\mu F$ in parallel with $3\mu F = 6\mu F$
$6\mu F$ in series with $6\mu F = 3\mu F$
$3\mu F$ in parallel with $2\mu F = 5\mu F$
$5\mu F$ in series with $5\mu F = 2.5\mu F$

Hence $C_{eq} = \textbf{2.5}\boldsymbol{\mu}\textbf{F}$