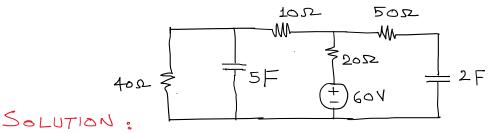
## North South University Fall 2021 EEE141 ( sec – 5 ) Quiz 4

Marks = 5 Time = 20 minutes

1. Find the energy stored in the capacitors of the following circuit under dc conditions.



$$I_{5} = \frac{60}{20 + 10 + 40} = \frac{6}{7} = 0.8574$$

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$$V_{1} = 40 I_{5} = 34.29 V$$

$$W_{1} = \frac{1}{2} \times 5 \times 34.29$$

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$$W_{2} = 42.86 V$$

$$W_{2} = \frac{1}{2} \times 2 \times 42.86 = 1.84 k T$$