

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES
 Department of Electrical Engineering

EE240 Circuits I
Quiz 06

Name: _____

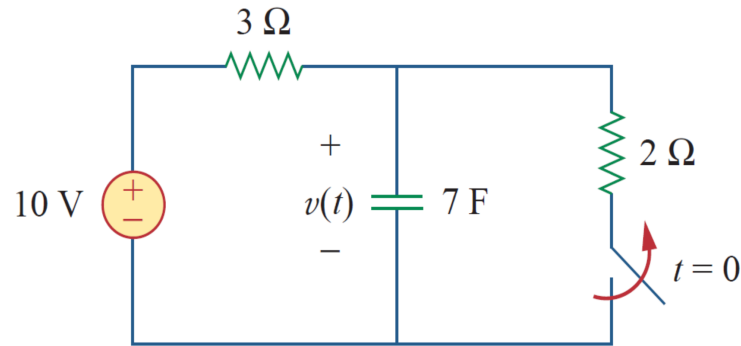
Campus ID: _____

Total Marks: 10

Time Duration: 20 minutes

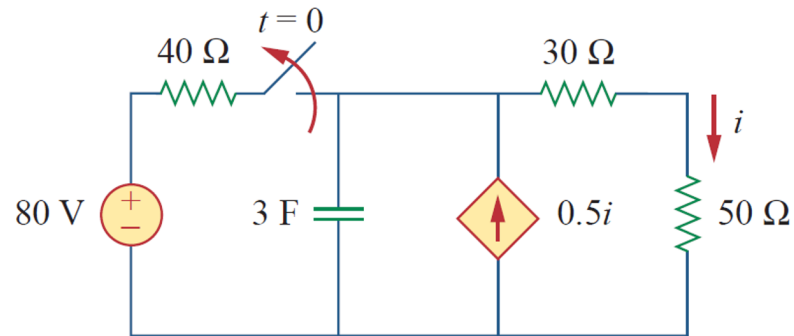
Question 1 (2 marks)

In the circuit given below, the switch is opened at $t = 0$. Find $v(t)$ at $t = 0^+$.



Question 2 (8 marks)

In the circuit given below, the switch is opened at $t = 0$.



- (a) [2 marks] Determine the voltage across capacitor at $t = 0^-$. (Hint: Use Nodal Analysis)
- (b) [2 marks] Determine $i(t)$ at $t = 0^+$ and $i(t)$ at $t = \infty$.
- (c) [4 marks] Determine and plot (with labels) $i(t)$ for all times.