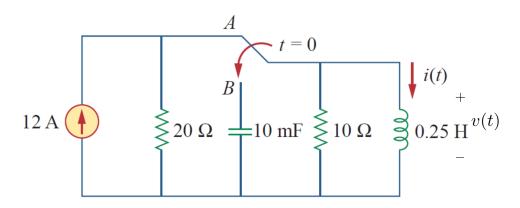
LAHORE UNIVERSITY OF MANAGEMENT SCIENCES Department of Electrical Engineering

EE240 Circuits I Quiz 06

Name:
Campus ID:
Гotal Marks: 10
Time Duration: 20 minutes

Question 1 (10 marks)

In the circuit given below, the switch has been at position A for a long time before it is moved from A to B at t = 0.



- (a) [2 marks] Determine i(t) and v(t) at $t = 0^+$.
- (b) [4 marks] Determine $\frac{di}{dt}$ and $\frac{dv}{dt}$ at $t = 0^+$.
- (c) [4 marks] Determine $\frac{d^2i}{dt^2}$ and $\frac{d^2v}{dt^2}$ at $t=0^+$.