

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES
Department of Electrical Engineering

EE240 Circuits I
Quiz 08 - Section 1

Name: _____

Campus ID: _____

Total Marks: 10

Time Duration: 20 minutes

Question 1 (10 marks)

In the following circuit, the switch is *opened* at $t = 0$.

- (a) [5 marks] Determine the current $i_L(t)$ for all times.
- (b) [2 marks] Determine the voltage $v_c(t)$ for all times
- (c) [2 marks] Plot the current $i_L(t)$.
- (d) [1 mark] What is the nature (over-damped, under-damped, critically damped or undamped) of the response?

