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## GATE-2023 (EE) Q 29

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**Q29:** The value of parameters of the circuit shown in the figure are

$$R_1 = 2\Omega, R_2 = 2\Omega, R_3 = 3\Omega, L = 10mH, C = 100\mu\text{F}$$

For time t < 0, the circuit is at steady state with the switch 'K' in closed condition. If the switch is opened at t = 0, the value of the voltage across the inductor  $(V_L)$  at  $t = 0^+$  in Volts is \_\_\_\_\_\_ (Round off to 1 decimal place).

