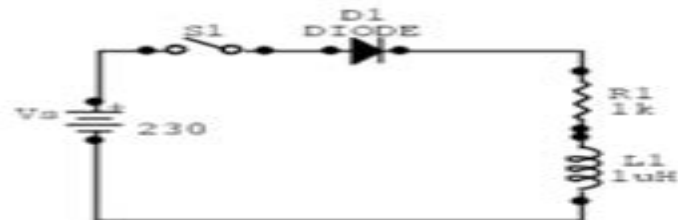


Data for question 1 to 4



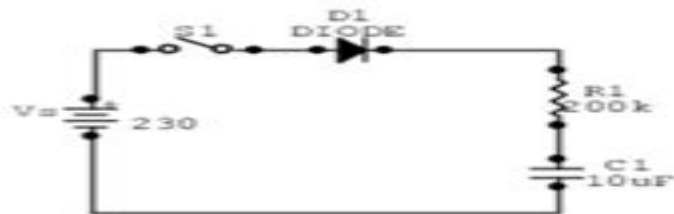
Q1 when the switch S1 closed then rate of rise of current is –

Q2 time constant (τ) for this circuit is –

Q3 what will be voltage across the Inductor L after 0.5τ time?

Q4: Voltage across the resistance at $t=0$ and $t=4\tau$ are –

Data for questions

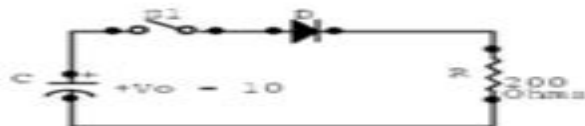


Q5 When the switch S1 is closed, what will be rate of change of capacitor voltage –

Q6 Voltage across the capacitor C1 at time $t = 2.5\tau$ where τ is time constant of circuit-

Q7 what will be current at $t = 0$?

Q8 For a diode circuit shown in figure Q8, the capacitor C is initially charged up to $V_0 = 10V$ with upper plate is positive. What will be peak diode current if switch S1 is closed at $t=0$?



- a) 5A
- b) 0.5A
- c) 0.05A
- d) 0.02A

Q9 In previous Question if the capacitor C is of $10\mu F$ then energy dissipated in circuit is given by

- a) 0.5mW
- b) 0.5MW
- c) 0.5 μ W
- d) 1mW

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Wenbin Ji



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