

IC and RC Practice Test Questions and Answers

1. What do IC and RC typically represent in electrical circuits?

- A) Input Current and Resistance Current
- B) Inductor Current and Resistor-Capacitor circuits
- C) Integrated Circuits and Remote Control
- D) Internal Combustion and Rapid Charging

2. In an RC circuit, what happens to the voltage across the capacitor during charging?

- A) It remains constant throughout
- B) It increases exponentially toward the supply voltage
- C) It decreases linearly
- D) It oscillates between high and low values

3. What is the time constant (τ) of an RC circuit?

- A) R/C
- B) $R \times C$
- C) C/R
- D) $R + C$

4. How does an inductor behave in a DC circuit after the transient period?

- A) Like an open circuit
- B) Like a short circuit (very low resistance)
- C) Like a high resistance
- D) Like a capacitor

Answers: 1-B 2-B 3-B 4-B

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