

Interview Questions

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Time Response of Reactive Circuits Online Test – Multiple Choice Questions and Answers

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Congratulations – you have completed **Time Response of Reactive Circuits Online Test Set**.

You scored **2** points out of **10** points total.

Your answers are shown below:

1. What is a circuit that produces short-duration spikes?

- **An RL integrator**
- A pulse waveform-to-dc converter
- A timing circuit

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- A trigger pulse generator

2. With an RL integrator, at the instant of the rising pulse edge,

- **63 percent of the input voltage is across the resistor**
- all the input voltage is across the inductor
- all the input voltage is across the resistor
- 63 percent of the input voltage is across the inductor

3. A steady-state condition is reached when

- the output voltage reaches the input voltage
- **the output voltage reaches the effective value of the input voltage**
- the output voltage reaches the average value of the input voltage
- the output voltage reaches approximately 63% of the input voltage

4. To understand how the output voltage is shaped by a differentiator, you must consider

- the response to the falling pulse edge
- the response to the rising pulse edge
- the response between the rising and falling edges
- **All**

5. In an RC differentiator, the capacitor

- **charges exponentially at a rate depending on the input voltage**
- charges when the input voltage is decreasing
- charges exponentially at a rate depending on the RC time constant
- charges to approximately one time constant

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6. An RC differentiator acts as a

- band-pass filter
- **high-pass filter**
- band-stop filter
- low-pass filter

7. In electronic systems, repetitive-pulse waveforms are encountered

- twice as often as single pulses
- less often than single pulses
- **about as often as single pulses**
- more often than single pulses

8. If the capacitor in an RC integrator shorts, the output

- would measure the same as the input
- **would measure zero volts**
- is at ground
- None of the above

9. Which of the following is true for a capacitor?

- A capacitor's voltage cannot change instantaneously
- A capacitor acts like a short to instantaneous changes in current
- **A capacitor acts like an open to dc**
- All

10. An RL integrator and an RC differentiator can act as what types of filters, respectively?

- low-pass, high-pass
- low-pass, low-pass
- **high-pass, low-pass**
- high-pass, high-pass

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