

INSTRUMENTATION ENGINEERING

Q1. What is the principle of the pneumatic load cell?

- Force counter balance
- Force balance principle
- Electromechanical principle
- Magneto-elastic principle

Q2. In which of the following registers does the microcontroller automatically set the TFX bit, when a timer overflows from its highest value back to 0?

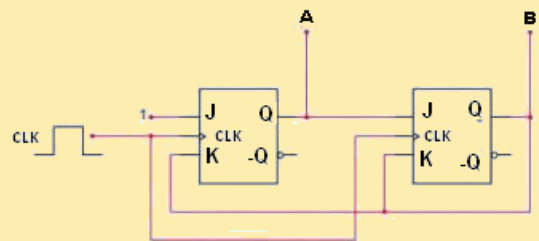
- TL0
- TH0
- TH1
- TCON

Q3. The output transform of first-order systems for unit-impulse response is:

- $Y(s) = 1/(sT + 1)$
- $Y(s) = 1/ \{s (sT+1)\}$
- $Y(s) = 1/ \{s^2(sT+1)\}$
- $Y(s) = 1/(sT)$

Q4. In the given circuit, the duty cycle of output B is _____.

- 25%
- 33.33%
- 50%
- 66.66%



Q5. Which kind of filter does the given Op-amp-RC circuit realize?

- Band Pass Filter
- Low Pass Filter
- High Pass Filter
- Notch filter
- All pass filter

