

2003 2

5 , 20 ,

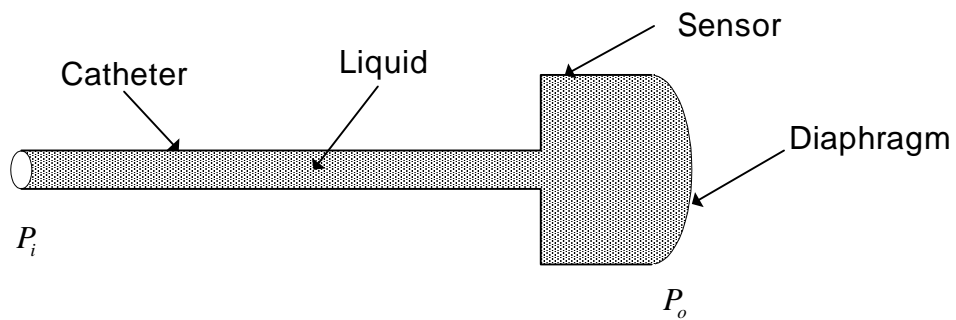
(1) , ADC, microprocessor, , LCD ,
가 .

(a)

(b) , ADC microprocessor
 , LCD
microprocessor ,
microprocessor , 가

(c) , PC
가 .

(2)



(a) RLC 가 , R, L, C
가 .

(b) R, L, C (P), (F), (V) .

(c) P_i , v_i , P_o , v_o

(d) Catheter 가 , 가 ,

(3) (2) diaphragm gage factor 가 +100 p-type Si strain gage 2 -100 n-type Si strain gage 2 가 . Diaphragm 가 , strain gage strain , 10^{-5} %/mmHg , 가 strain gage 50Ω . strain 가

(a) 0 – 500mmHg , p-type n-type Si strain gage 가?

(b) strain gage , strain gage 가

(c) dc 1V , 0 – 1V 가 , .

(4) 120mmHg 80mmHg , 60bpm 가 .

(a) 20 .

(b) 0 NIBP 140mmHg 가 , -4mmHg/s 60mmHg . (a) cuff 가 , cuff 가 .

(c) Cuff .

(d) (c) .

(5) $x(t) = X_0 \sin(2\pi \times 10t)$ $c(t) = \sin(2\pi \times 50t)$.

(a) $x(t)c(t)$ $t = 0$ 0.3 0.02 .

(b) $x(t)$, $x(t)c(t)$.