

INTERNAL ASSESSMENT 2

Total points 10/10 ?

SECOND YEAR SEM-IV LIC

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✓ 1) Free running frequency of Astable multivibrator? *

1/1

☒ $f = 1.45 / (RA + 2RB)C$ ☐ $f = 1.45 / (RA + RB)C$ ☐ $f = 1.45C / (RA + 2RB)$ ☐ $f = 1.45C / (RA + RB)$ 

✓ 2) The time period of a monostable 555 multivibrator. *

1/1

- ☐ $T = 0.33RC$
- ☒ $T = 1.1RC$
- ☐ $T = 3RC$
- ☐ $T = RC$



✓ 3) To achieve 50% duty cycle in adjustable rectangular wave generator? 1/1
(Assume $R_1 \rightarrow$ Resistor connected between supply and discharge and $R_2 \rightarrow$ Resistor connected between discharge and trigger input.) *

- ☐ $R_1 < R_2$
- ☐ $R_1 > R_2$
- ☒ $R_1 = R_2$
- ☐ $R_1 \geq R_2$



✓ 4) What are the typical values of V_{ref} and I_{adj} for the LM317 adjustable voltage regulator? *

1/1

- ☐ 1.0 V, 100 mA
- ☐ 1.5 V, 100 mA
- ☒ 1.25 V, 100 μ A
- ☐ 1.25 V, 10 Ma



✓ 5) The 7805 regulator IC provides output voltage *

1/1

- ☒ 5 V
- ☐ -5 V
- ☐ 12 V
- ☐ -12 V



✓ 6) In IC LM 723, V_{ref} and V_{sense} are *

1/1

- ☐ 0.7V and 7V respectively
- ☒ 7V and 0.7V respectively
- ☐ 1.25V and 0.7V respectively
- ☐ 0.7V and 1.25V respectively
- ☐ Other:



✓ 7) The 7912 regulator IC provides output voltage *

1/1

- ☐ 5 V
- ☐ -5 V
- ☐ 12 V
- ☒ -12 V



✓ 8) Which of the following is not a basic element of a phase-locked loop circuit? * 1/1

- ☐ phase detector
- ☒ parallel tuned circuit
- ☐ voltage-controlled oscillator
- ☐ low-pass filter



✓ 9) The value of external timing capacitor, if no modulating input signal is applied to VCO, consider $f_o = 25$ kHz and $R_T = 5$ k Ω . * 1/1

- ☐ 6nF
- ☐ 100 μ F
- ☒ 2nF
- ☐ 10nF



✓ 10) Voltage to frequency conversion factor for VCO is * 1/1

- ☐ $K_v = \Delta V_c / \Delta f_o$
- ☒ $K_v = \Delta f_o / \Delta V_c$
- ☐ $K_v = \Delta f_o \times \Delta V_c$
- ☐ $K_v = 1 / (\Delta f_o \times \Delta V_c)$



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