

INTERNAL ASSESSMENT 2

SECOND YEAR SEM-IV LIC

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1) Free running frequency of Astable multivibrator? *

1 point

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



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

1 point

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

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

1 point

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

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

1 point

- ☐ 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 point

- ☒ 5 V
- ☐ -5 V
- ☐ 12 V
- ☐ -12 V

6) In IC LM 723, Vref and Vsense are *

1 point

- ☐ 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 point

- ☐ 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 point

- ☐ 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 $f_o = 25 \text{ kHz}$ and $R_T = 5 \text{ k}\Omega$. *

1 point

- ☐ 6nF
- ☐ 100 μ F
- ☒ 2nF
- ☐ 10nF

10) Voltage to frequency conversion factor for VCO is *

1 point

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

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