

PART – B

- 5 a. Describe the effect of negative feedback on gain. (06 Marks)
b. Explain the series-series feedback with schematic arrangement. (08 Marks)
c. Write the advantages of negative feedback:
i) Effect on bandwidth
ii) Effect on noise
iii) Desensitivity of gain. (06 Marks)
- 6 a. Explain the astable multivibrator with waveform. (10 Marks)
b. Explain R_c high-pass circuit as differentiator. (05 Marks)
c. A simple low-pass R_c network is fed with a 10V step. If $R = 1K\Omega$ and $C = 0.01\mu F$, what will be the time period in which the o/p will change from 1.0 to 9.0V (05 Marks)
- 7 a. Explain buck regulator and inverting regulator, with neat diagram. (12 Marks)
b. Explain the regulated power supply parameters:
i) Load regulation
ii) Line regulation
iii) Output impedance
iv) Ripple rejection factor. (08 Marks)
- 8 a. Explain the absolute value circuit. (08 Marks)
b. Explain with the neat diagram voltage-to-current converter. (06 Marks)
c. Explain the differential amplifier input stage of Op-amp. (06 Marks)
