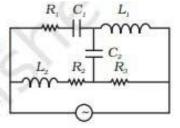
energy?

**7.15** Draw the effective equivalent circuit of the circuit shown in Fig 7.1, at very high frequencies and find the effective impedance.



**7.16** Study the circuits (a) and (b) shown in Fig 7.2 and answer the following questions.

R

R C L

Fig. 7.1

15. X=1=1 = X x1 ωC (2πν)C ν X = WL = (2TV)C = X X X As frequency is very high; \* So,  $X_c \approx 0$  and  $X_t$  becomes too high (Short (Open circuit) Hence, equivalent circuit is: (xc,=xg≈0) Hence, total impedance => 2 = R, + R3