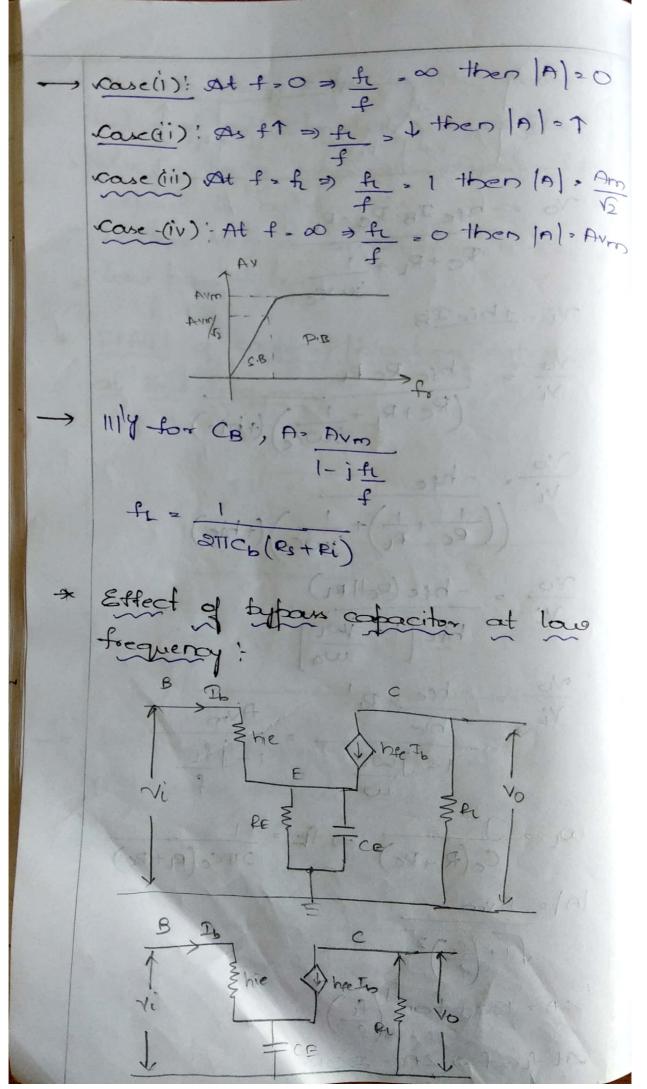


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(i) Low frequency response: The range of frequencies for which gain decreases as the frequency is. s et la frequencies, external capacitors (Cb, Cc, Ce) 2 internal capacitons (CBE) (BC) are open circuited. Herre, ofp vollage , As the freq. 1's, the enternal capacitanas will allow the i/p signal. (As treg 1s, orchatance (x) *). Hence, of voltage 1s. at low frequencies, amplifier acts au high pars filter. (i) Mid frequency response! - the range of frequencies over which gain is constant is known as Mid trequency response. In this region, external capacitors acts like SC & internal capacitors like o.c. + Hence, the now acts like a resistor which is independent of frequency. > Therefore, gain is constant. (iii) High frequency response:) The range of frequencies for which gain decreases as the frequency 1/s.

- At high frequencies, the internal & external capacitors act like a SC. -> Due to the in capacitive effect, Op voltage is as freq 1s. In this region, amplifier acts like a low pars filter. * Effect of coupling blocking capacitor at low frequency: While considering the effect of 1 capacita othercapacitos au s.c ou reglected. conventing current source to voltage source,



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