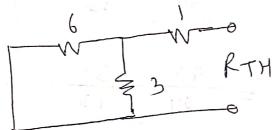
$$\frac{0.2}{18V} = \frac{6}{16V} = \frac{1}{16V} = \frac{$$

$$6I + 6 + 3I - 18 = 0$$

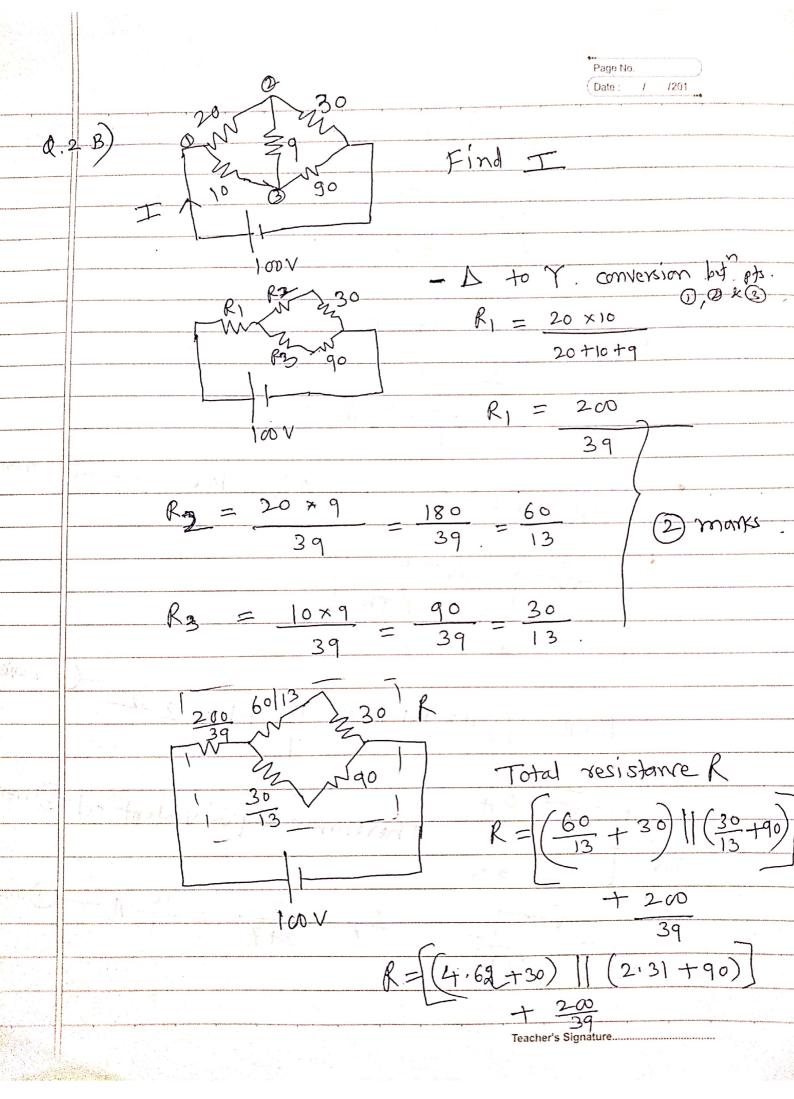
 $9I - 12 = 0$
 $I = \frac{12}{9} = \frac{4}{3}A$

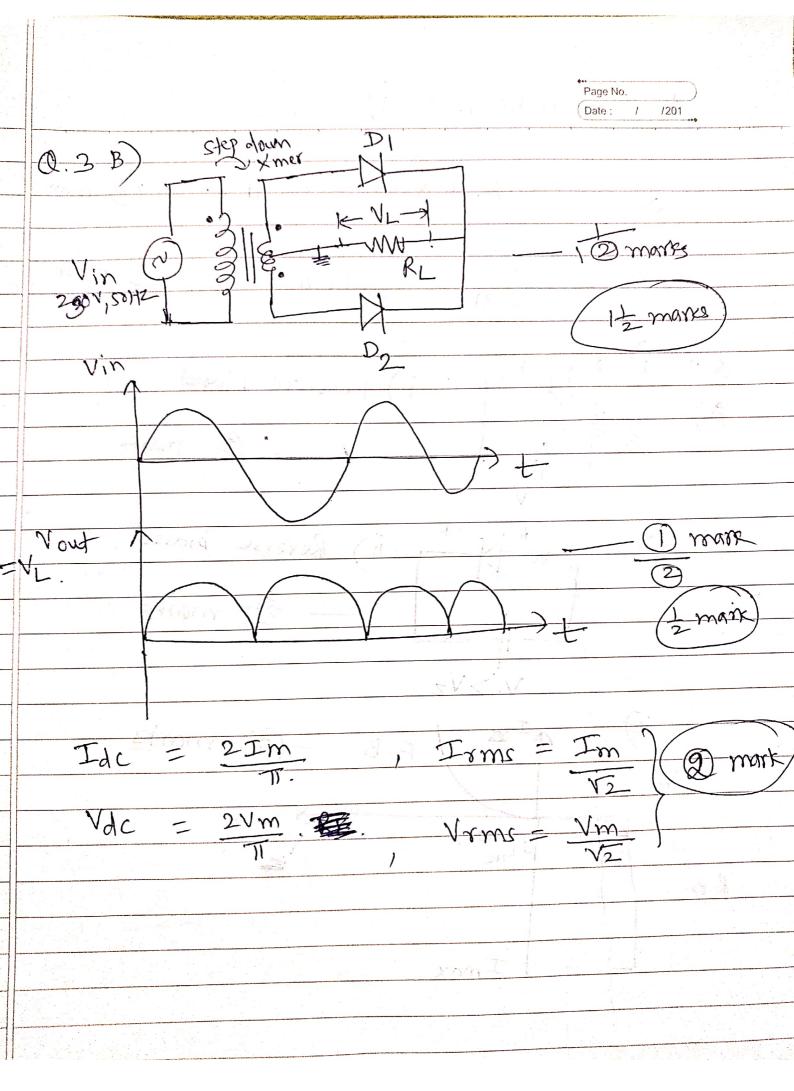
 $V_{TH} = 6 + 3I = 6 + 3\frac{4}{3} = 10V$. — (2) modes



$$RTH = (6113) + 1 = \frac{18}{9} + 1 = 2\Omega$$

$$T_7 = \frac{10}{2+7} = \frac{10}{9} A$$
 mark





OK Q.3. CB construction dia depletionragion VEB - Forward bidged E-Bj - Width of depletion region reduces resulting in heavy flow of modarity corner coursely from b to u P- holes are majority camers. n - electrons are majority amen. depletion region. Reverse biased B-C in. Width of depletion region increases

	OR.	Page No. Date: / /201
	CB - anfiguration dia.	
	E JC	
	REZ B ZRC	(The monks -
	T./-	
	VEE VCC.	
9	$f(x) = \frac{1}{2} \int_{-\infty}^{\infty} f(x) dx$	(I) mark
	current gain, $d = I_{c}$	1) \$ 8,00,00
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