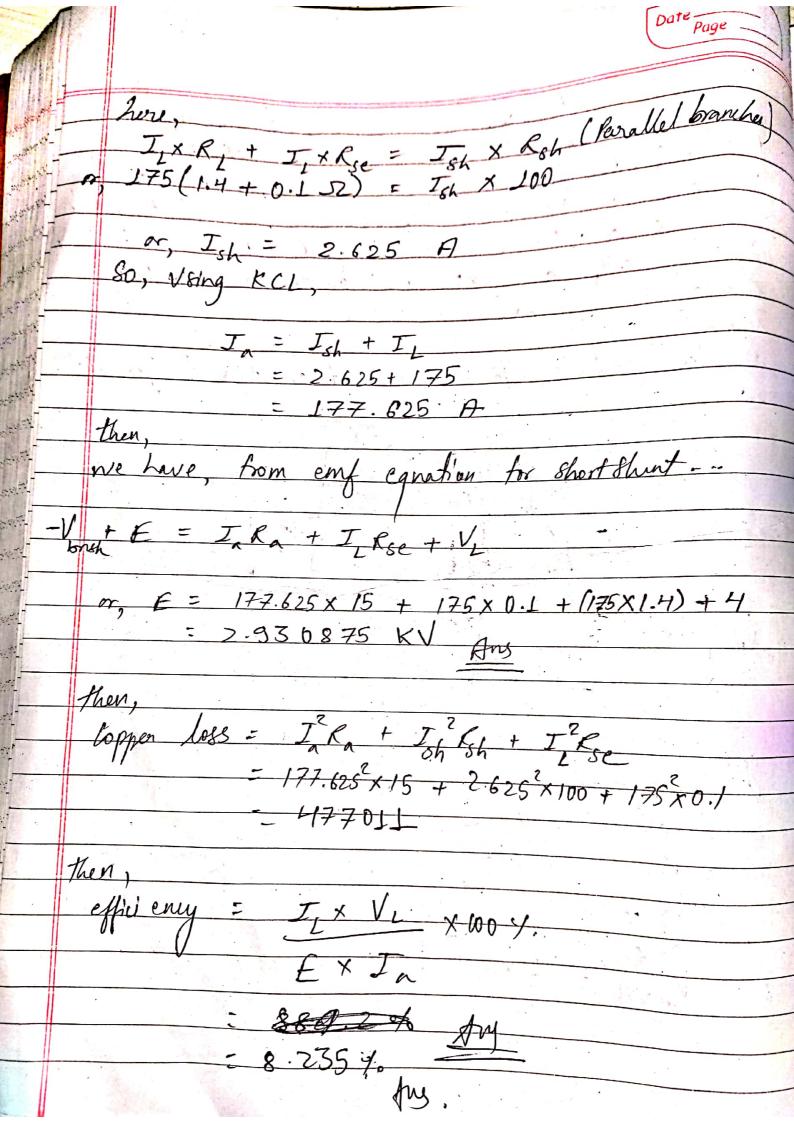


2) A short short compound de generator supplier a load current of 175 A to a seves of parallel heater load whose affective resistance is 1.452. The generator how armstore, series and shunt field sesistance are 1552, 0.152 and 100 2 respectively. Calculate conf generator if carbon brook per drop of We know that, for a compound short shout generator,

R = 10452 Ra = 15 JZ



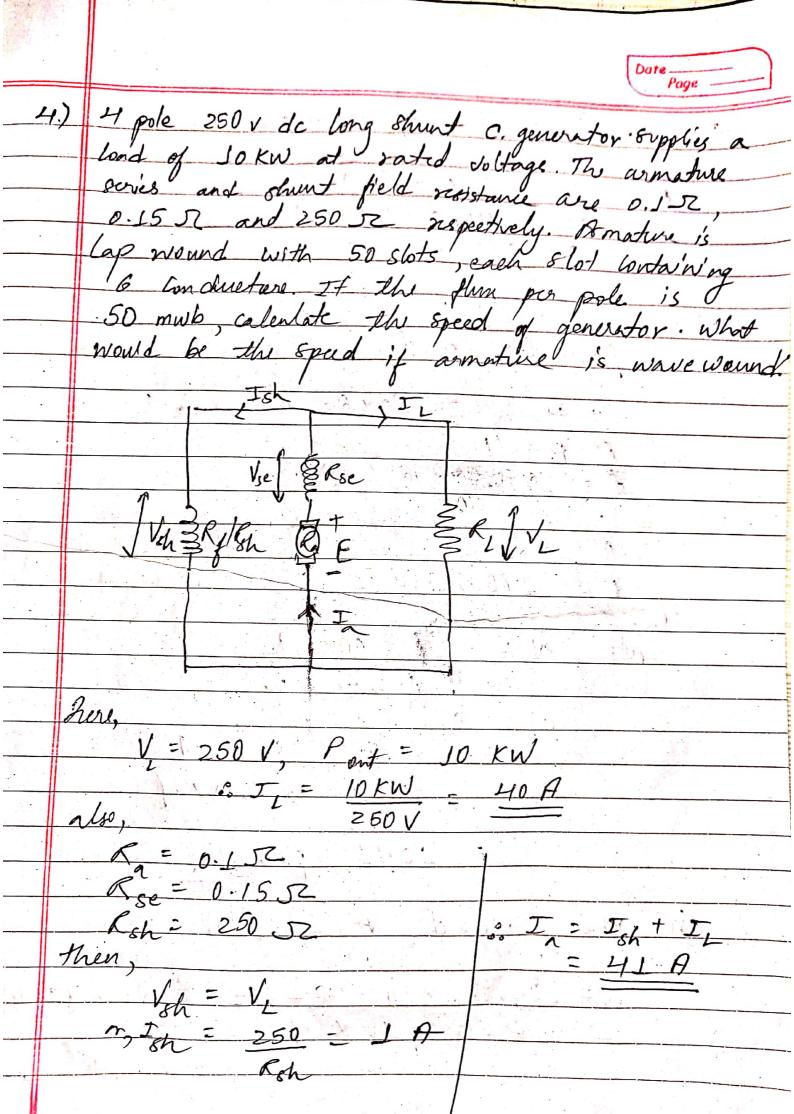


A short dunt Cumulative Compound generates explies 7.5 KW of 230 V. The Shirt, field seves field and armature desistance are 100, 0.3 & 0.450 Despectively. Calculate incheed conf. & load xistance Vsh & Elsh her, given, V = Z30 V, Port = 7.5 KW : R = VL = 230 = Reh = 100 -2 Rsc = 0.3 JZ So, $V_h = V_{se} + V_{se} +$ r, Joh = 32.608 (0.3+7.053) - 2.397 A : In = 32,608 + 2397 = 35 A

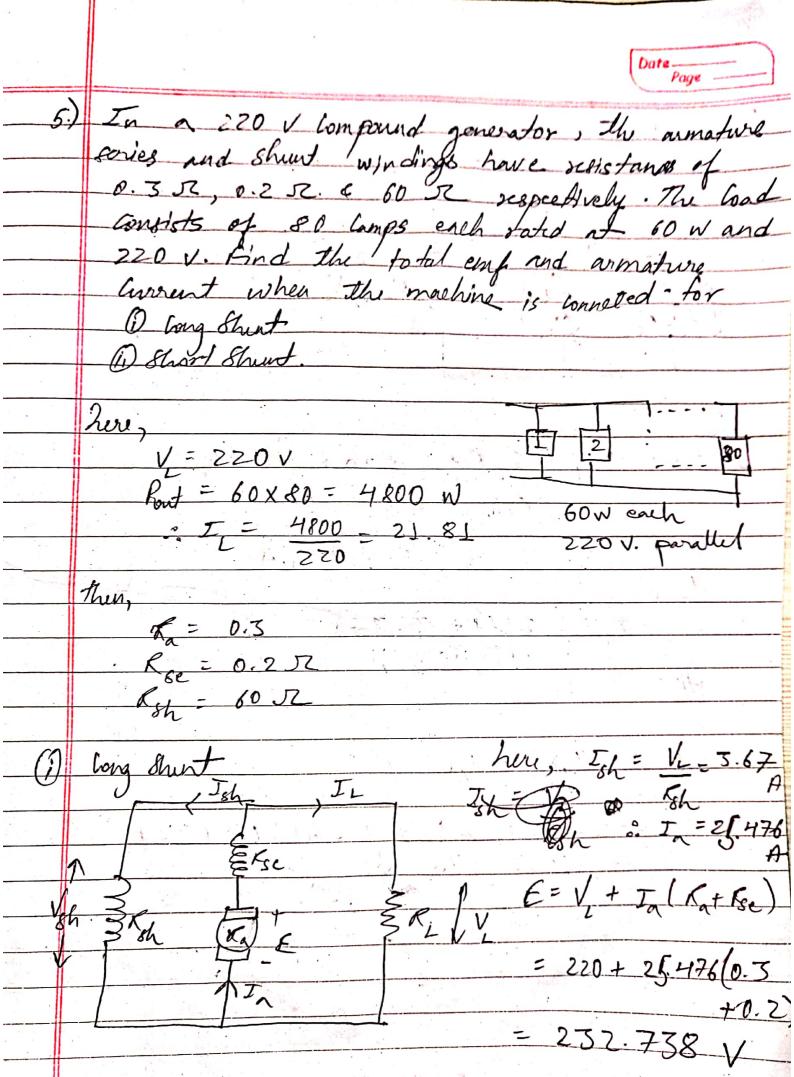
then, we have the empegnation,

E = IR + IRe + IR = 35 × 0.4 + 32.608 × 0.3 + 230 = 253.78 V

· Lord Kesistanie = 7.053 52 = Emf = 253.78 V.



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	Then, we have, the confegnation,
	$E = V_1 + I_1(R_1 + R_{SC})$
	= 250 + 41(0.1+0.15)
$-\parallel$	= 260.25 √
\parallel	
\parallel	Then;
	for lap wound,
	P = 4, Z = 50 x 6 = 300 conductors
\parallel	Q = Q = H
	p = 0 x 10 - 3 wb
	50
	N = 7
	E = 260.25 V
	80,
\parallel	N = F x 60x A
	D . 7 x D
#	4×2/
	= 260.25 × 60 × 4
	50 × 10 - 3 × 300 × 4
	= 1041 rpm Au
1.0	1
	for wave wound, A=2, so,
	N= 260.25 x 60 x \$2 = 520.5 pm
	$N = \frac{260.25 \times 60 \times 4}{50 \times 10^{-3} \times 300 \times 4} = 520.5 \times 10^{-3}$
	And



Ang

