EML TUT-6 KØ=1-44 V/radle Ra=0.86.7 Ia= 90A Soli V1= Est Jara ES= BKew= 1-45*150 =216V = 214+ 40x0.86 = 250.4V 5) The no board spul Fly no hoad = 250-4=173-88 2, Ra=0.42 V=200V w=500rpm =52.35rad5 Ja=25A ra PLIVW-400 = V - InRe 25 25/2-3-62

i) Al full hourd GACURE ZJA DE -1- TR, D = 110 = 3157369p 10) Ad thy In 401 31.388pm FC TO TO 100 N/s V= 250V gn who Load = 13 90 rpm = 167.0.8 africe Le. - 1195ps - 175.140rabi al No Loud N=V => Re - V - 240 Re Wnh: H3.0. A full love = -1.4319 = 125.1401 a Rusey = 19W - 1. 4389 125-14-= 179.3ng Moretus consul Qu 3 V= Jaka + 26 T- I = po : 19-35 19- V-ES = 242- 129 = 0.86891 19 1959 Paperkraft

() New vol V - 0.833 x 240= 2000 NA- 1-066 15 -000) 5./ bkw, 250V,) 200 yph Rg = 0 25 B = 1711 Full load = 80% Al full Local = Output po Doput pour ch = 12-56W Pm=125kw=V1 Input line count = JOA Féulau = ZA DAMatury aurunt In= I-IJ = LAA speed torque equation W= V - E'T Re Kek 27 75% of med 3 60-0.75X 217 X1200 = 94 24 toll 80

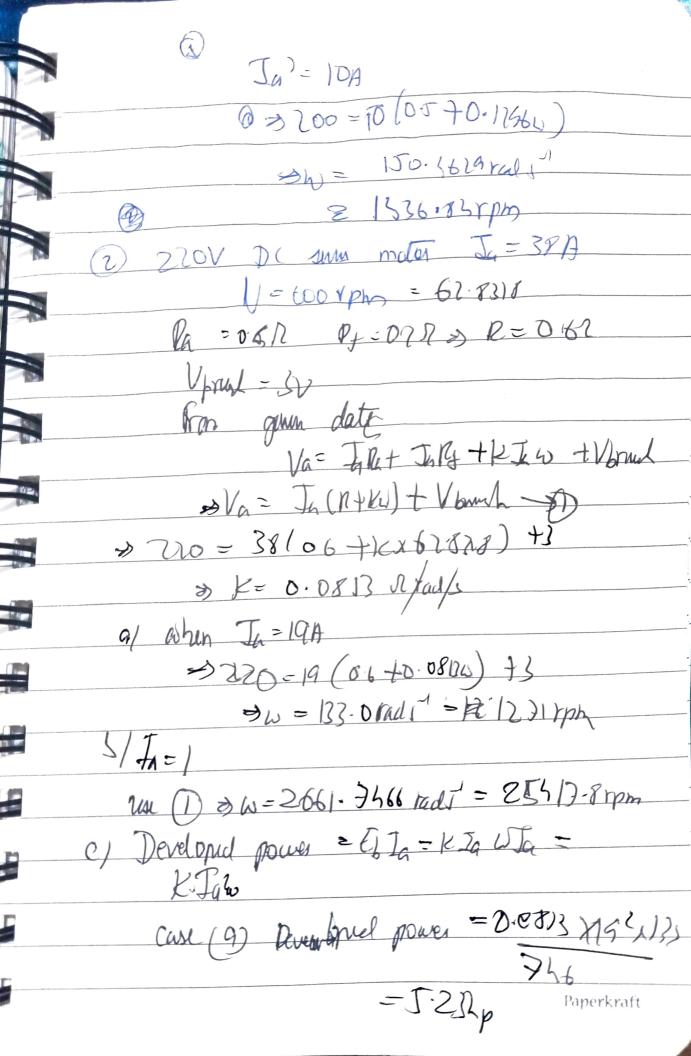
V = 250V st rated ordulos W=1200xpl= 120.8637 In = 48 A, RG= 0.202 > E= V-Tara = 200-148×0-2) = 250-41/ 2 Re-E1 - 240-4 = 1.9170 N/rad 14) 7032 J) P(shut motor : V = 250 V Rg=0752 Ry=100F While nun at 600 pm, cuunt deaus from supply = 60A J= for Field J = V = 200 = 2.54 2) Ja = 60 - 25 - 575B Pt 100 600rpm E3 = V- Jaka 60 = 62.2373 rads-= 250 - (57+500) = 23850Le = EL = 230 J = 3.74 aperkraft

Toque = KIJ = 3, 7958 X51T= 118.7613 Nm Now spud ands to be municipal to adding 50 = 83, 718 My extra resistance in field want Choul troyin = (ondail) W= V - Rey T Ke Rekt We know that, Ke XI & Rex V Kr'=kg' At 800 cpm 83.7758= 250 OI X 218-218-21 De1 = 2.7979 My ly 2 Ke" 3 1 = 135.18 Additional count & 135-645-140 = 32.6880

6) 200 PC shart note. T= OJNA At w= 210ps, Cum & dies = 38 17 EC-IA Ja=35A at 750 ppg. 6 = 78. J398V Ke= V-Jelg = 3-0018 V Fred Now speed w W= V-Ra T Re' (Re)2 27 XD00 210 03 y25 → 16'= 2.7600 V rade Perulian reducte = te-tel = 3.002 - 3.260) 3.000 = 23.7)", B H' & F' = 372-BDM En pas 332.7118 - 200 = 82.37

Jutorial-7 Offer a sum por = Va = IgRa + Jary + 1200 2) Va= Jy (My + M, + KW) (1) Tolan Te= KJa - 62 Giran data 1 7000 DC su motor N= 700pm = 20 x 300 - 71:125 Kad 17 J= 200 Patr = Don from the data, Va= Ta (16+Pg+law) \$ = 0.1796 Seprend/ 9/ Whu head toege hun by 1-64 limes DT(= 1.45Te 7) Ja = 1.2 To for @ >1.2X20=24A #200 = 25(0 + + 0.1794 HW) W 210.42, 0 rad = 577.19rpn

1/11/11/11 The select of the state of Palate Alay piles (1) (2) 220V Dr. dum miller inc 3/1 U= woxphy - 61-8411 Pa = 0 5/2 01 1 01 11 25 N= 6 1/1 Upreal = 60 from gum date Va Tallet Jallet K Lin & Visual Dr. (N+KU) + V bunch fis 2 Tro = 38/06 + 10x6262011 +1 >> K= 0.0813 Stad/s a/ when In=19A -> 220-19 (01 to.0800) \$5 >w = 133.0 radi = 12)1 rpm Im (1) & W=2661. 7466 radi = 25413.70 c) Developed power = Esta = Kig WE = K. Julo Case (9) Ruentinel power = 0.0873 >



3/ Given data = 950 V De suus notos; Patry = 08/12 Patul +prul = 83.2715 rass -1 At ratul torque > In = 1101 1/4 1/2 = Jap DE'= Va = 440 = 51 R=320 IN 1) Bt 600 pm => 950=110(k)+0.0382x6v83)8/ R = 16R Posty -0.82 4) At to load, turning volctage = Indual onf=Ib

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In other words Esse Jan Eliza - Wi (In) = Es (Wi) (In) 91 6h= 110 X 1.T-NOV 5) Eb, = 120x (1500) x 7.73 = 159.04 V DC shows gimeto Pe Pip Delivered eluits on put par = 60 KW@ 200V # I = 60X60 = 500A field aunt $J_j = \frac{200}{100} = 20$ Annely went = Ta= 302

Gim Law dipp = 2V \$51 =V+Jale+Vinuh (Gementer equality) = = 200 + (30x0.1) + 2 = 232.2V = KAD 1 Thufen, Le= 27.2 = 4.534 Nracls Now machine's prome moves input apply to simpored while simpred eliberal firminale buy amutal to Delles. The state of the s > Field to enunial & juntes also > Operate a motor Pm = Input place = VJ SI = CADT = SOH J=2A Ja= J-J = 25A-2A = 230 Va= Igla tEj + Vburk = 200 - (1) x 01) -2 c 511. 21 Shud U = 25-7 = 49.12 rad; 1=421.4m

DC shunt grusator supplies hour power of I) lobe at 250V, Caxol = 1 Ve >) J = loxlol = (0A Sons F T Jy - Vy = Zy Ja= J+ J = 52A Armatis con low = 1323W From + mal 104= boow es In pour lon = 1242) 2) Effancy n = 800% 3/9) Gran That free J=01A

2 Ey = 15V (Im table)

11 Kev = 115V 7 Ke = 115 =0 ap Vrad

25X200 # = \$1.08 A inpulated = 5370.25W