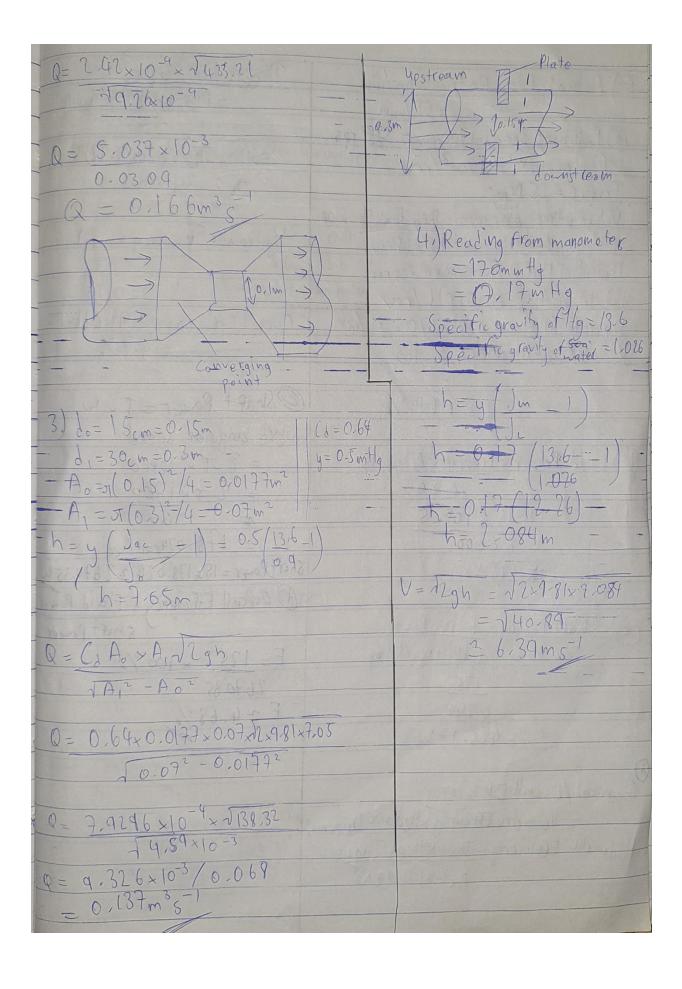
NAME: SHUIAB, Khalifa Yaqub

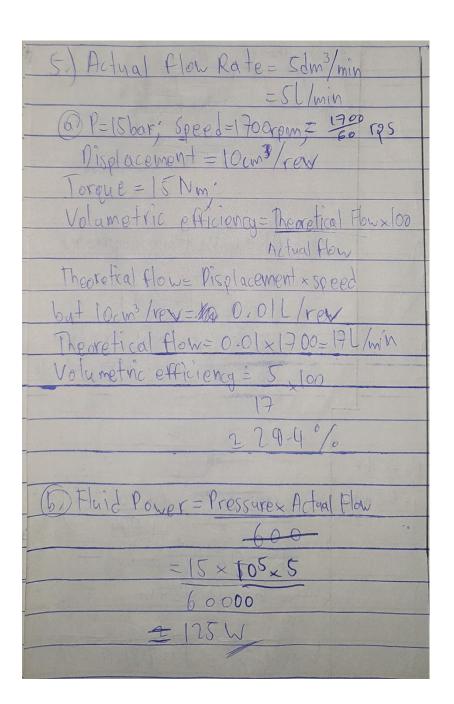
MATRIC N^O: 18/ENG05/056

DEPARTMENT: Mechatronics Engineering

COURSE: ENG 214

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SHUALB Khalifa Yagub	18 The second se
18/ENGOS/056	Garage araw green
Mechatronics Engineering	
ENG238 Assignment	day the age of the
V-Sms	AND
1) O T T T T T T T T T T T T T T T T T T	2.) d=20cm=0.2m(inlet)
V=5ms	A= 7 d2 2 6.03 142 m2
The part round 5m shows migh	We Children
C TE COMPELISM	di=10 am = 0 fin (throat)
Un= 2 ms hap instracted of and smaller	A1 = 7 d2 2 0.06785 m2
as the sold comes to propose of with	A1 = 7 2 2 0.06785 m²
Loss of head = 0.35 (V, -V) /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	Cd = 0.98 to get sould be all get =
= 0135 (5-2)2 p[37] (VI)	P = 17.6518 Ncm = 3 = 176580Nm2
2 (9.81)	Mouve 294 / Not got =
and a 0.16m 2001 strated sold	Yarthum Pressure = 30 cm Hz = 0.3 mHz
e do servicio platera colmatidar sur	Vactuum Pressure = 30 cm Hg = 0.3mHg
Applying Bernoullis equation for	MAR ALGOR 176580 1030 140
conical tube	Pa 918 [21000 911/16]
P, + V, 2 + 2, = P2 + V, 2+ 2, the	h2 = 1/2 = -0.3 mHg
E=2m, 2=0m 1/2	1 = (-0.3x13,6) mH20
2.5+52 +2= P2 +22 +0+016	-4.08m+120
2(9.81) W 2(9.81)	h = p - p = 18-(-4.08)
=> 25+1.77+2=P= +0.203+0.16	· Otom Wall with a falter sale
> 5.77 = P2 + 0.363	17 1 1 1 22 - 08 m rot
P2 = 5-77 - 0.363 5	Q= Co A, A, Tigh /AA, And
get the restant a regard of best of the most on the	7960 9H 0 41 09971 Janonisal
= 5,41 morroso doll +	Q=0.78×0.03 H12 × 0.00785×17,991
head at larger opening = 5.41m	70.0342 -0.007852
	20.0x42 -0.00+88 -
NAME OF THE PARTY	and my deline





The state of the s
@Shaft Power=Txw
W= angular speed
= 2 T × speed
= 2×1700
F 60
= 178.024rad/sec
Shaft Pawer = 15x 178.024 2 2670.35W
Doverall Efficiency = Flaid Power
shaft power
E=125 × 100%
2670.35
E = 4.68%
}