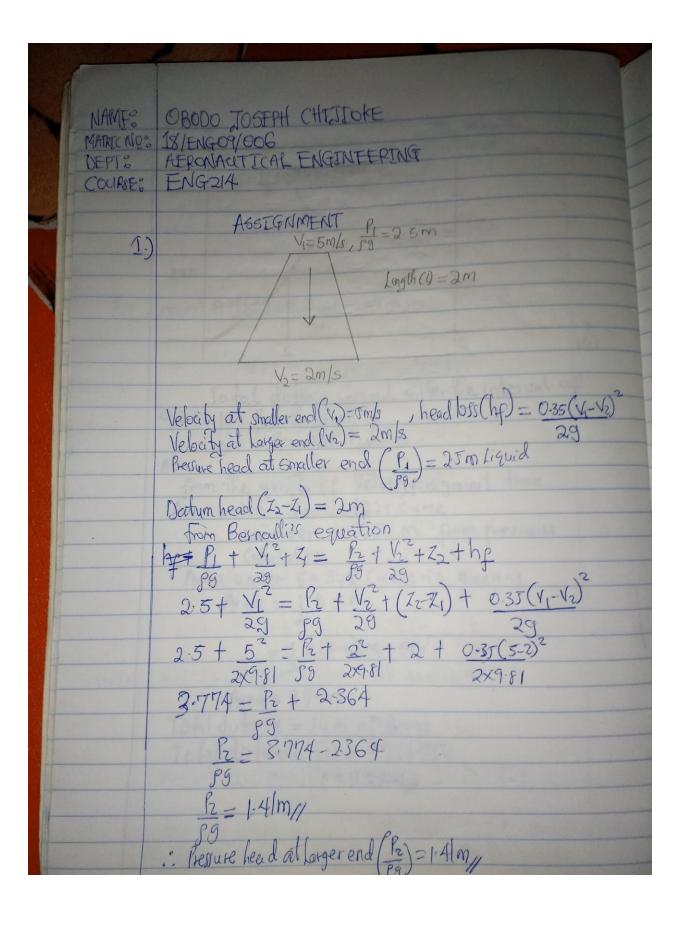
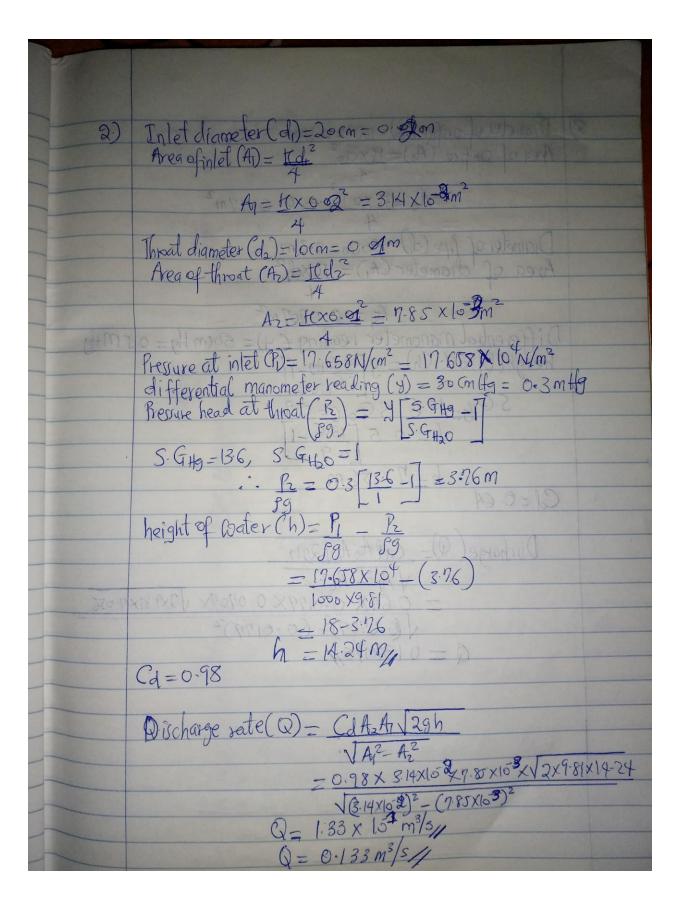
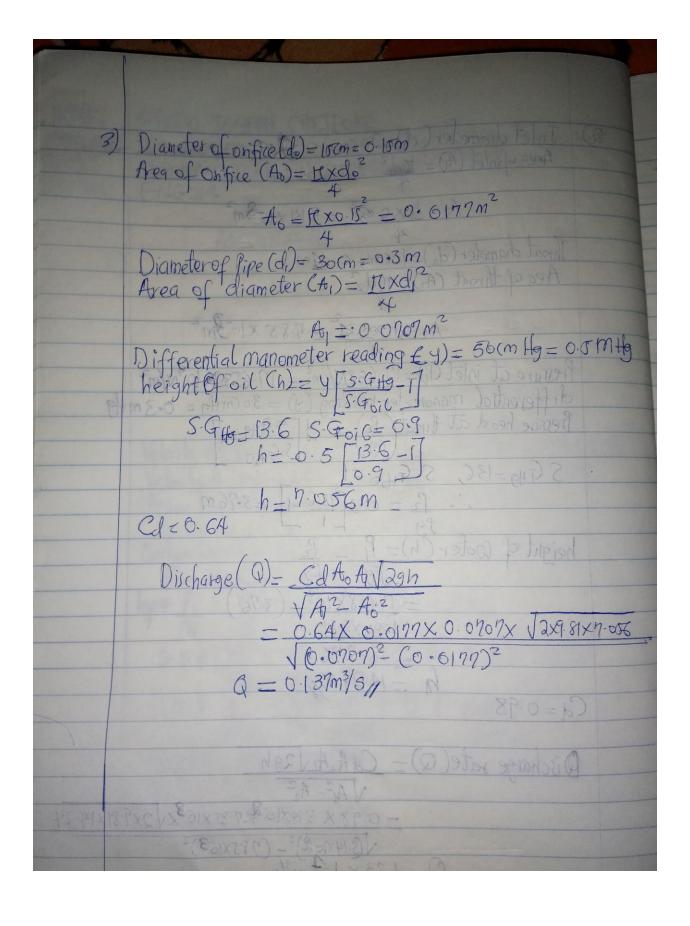
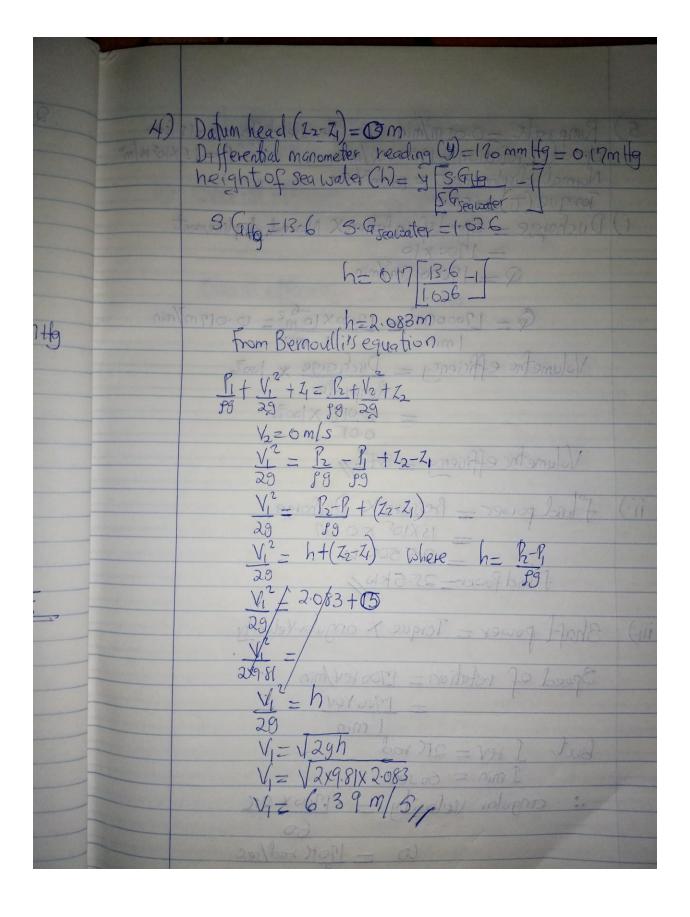
NAME: OBODO JOSEPH CHIJIOKE
MATRIC NO: 18/ENG09/006
DEPARTMENT: AERONAUTICAL ENGINEERING
COURSE: ENG214









5.)	Actual flowsate (Q) = 0.005 m <sup>3</sup> /min  Pressure change (P) = 15 bar  P=15×105 N/m <sup>2</sup>
	Speed of rotation (10) = 1 700 rev/min
	Speed of rotation (10) = 1700 rev/min Normal displacement = 10 cm³/rev Torque (0) = 15 Nm
i)	Nominal flow rate = Normal displacement X speed of ratation  - 10 X 1720  - 17000 (m3/1900 in  - 17000 X 10 6 m3
	Nominal flow rate = 0.017 m3/min
	Volumetric efficiency = Q x100% Nominal flow rate = 0.005 x100%
	Volumetric efficiency = 29.412gg
Cii	Fluid POWER = QXP = 0.000X 15X1655 = 7500W
[[t]	Shaffpower = TXW
	T=ITNM W=1700tev/min 1 rev=2K tad, Imin=60see
	: W= 1700 X2rc
	6=178.02 tad/sec

Shaffpower = 15×178.02 Shaffpower = 2670.35W/ Overall efficiency = Shaffpower x look Fluidpower = 2670.35 x1002 7500 Overall efficiency = 35-6% Inamanphyrib lanmol XCI =9/62 wolf lonimo P - Moist of Statemental olot aud 7 Jorimala 100 × 10,0