7	Subject:	/ /
		0.0
7	CH:06	6.18
7		do = 30) d = 30.04
4	do=15.2mm &=20.7x1010	Q=105.20mm lo=2
0		
9	lo = 250mm	G = 25.4 , E = 65.5
9	F=48,900~	
90		E= 26 (1+v)
7	- 0 F	0= 00,(110)
7	$(a) 6 = \frac{F}{A}$	
7	H	V = & _1
4	DLF = F	$V = \underbrace{\varepsilon}_{26}$
90	$\frac{\Delta L}{L} = \frac{F}{+ \left(\frac{do}{2}\right)^2}$	= 65.5
7		2(25-4)
1	110 000 -3	
To	$= \frac{48,900}{\pi \left(\frac{15.2 \times 10^{-3}}{3}\right)^2} \times \frac{250 \times 10^3}{20.7 \times 10^{10}}$	=0.28
0	7 (15.2×10-3)2 20.7×1010	Ey= DL
0	(2)	$\mathcal{E}_{z} = 1.33 \times 10^{3}$
9		$Cz = 1.55 \times 10$
9	$= 3.25 \times 10^{4} \text{ m}$	
9		$0.28 = -1.33 \times 10^3$
7	·	
7	6.17	Ez
	do = 10mm &z = F	Ez= -4.6 x 103
4	F=15,000N AS	Cz= -4.6 x10
9	$Ad = 7 \times 10^3 \text{ mm}$	
7	E = 1006Pa	11- E.
To		V= E _y E _z
0		
9	$v = - \varepsilon_x$	VEZ = Dl
9	$N = -\frac{\varepsilon_x}{\varepsilon_z}$	lo
4		100000
	$= -\left(\frac{10\times10^{3}}{10\times10^{3}}\right)$	Al= vezlo
1	15,000	
4	Tr (10x To 3)2 x 100 x 10°	L = UEzlo+lu
0	2 1 100 110	~
9		
9	= -0.36	= 0.105 m
9		
4		

1	Subject:	
4	6.19	(b) $\Delta d = 2.3 \times 10^{-3}$
9	90 = 10 mm	
9		
9	F= 1500N	$V = -\frac{\varepsilon_z}{\varepsilon_z}$
33333333333	d = 6.7 x 104	
1	€=3	- <u>Ad</u> = <u>Al</u>
4		100
0	V=0.35	do 10
9		
4	$V = - \mathcal{E}_{\mathbf{r}}$	=0.32
7	$V = -\frac{\varepsilon_{R}}{\varepsilon_{Z}}$	
1		6.20
4		6-22
4	$A3 , \Delta \Delta = $	do=10.7mm
9	$= -\frac{\Delta d}{do} \times \frac{EA}{F}$	lo = 95mm
9		
1333		F= 6300N
4	E = UFdo	
4	Px BA-	(a) $Pl = 95.04$
9	= 9.9 x10 10 Pa	. 0.0
9	= 1.1 X 10 Fq	(10.7x103)2
7		$E = 6300 / \left(\frac{10.4 \times 10}{2} \right)$
7	6-20	95.04-95
1	do=15mm	
0		95
9	lo = 150mm	0 // 0
7	6 = 50MPa	$= 1.66 \times 10^{\prime\prime} Pa$
7	l=0.072mm	
333333333333333333333333333333333333333		(p) 1 = A4 = N0
4		$\frac{d}{do} = \frac{\Delta d}{do} = \frac{\Delta l}{lo}$
9	$\frac{E = 50 \times 10^6}{0.072}$	
9	150	= 10.7-10.698 - 95.04-95
7	= 1.04 x 10" Pa	10-7 95
7	= 104×10 Pa	= 0.44
1		= 0.44
4		
4		
9		
4		

	/ /
Subject:	
CH: 16	
16.8	
Vt = 0.45 6t = 3600	(in)
$V_{m} = 0.55$	45.
6m = 35	1 1/2
(a) 6c = 6mVm + 6fVf	cosus = 2xc
$= 35 \times 0.55 + 3600 \times 0.45$	240+240
= 1639.29	1 = 10
	$\frac{1}{\sqrt{2}} = \sqrt{c}$
(b) $\mathcal{E}_{\mathcal{C}} = \mathcal{E}_{\mathcal{F}} \mathcal{V}_{\mathcal{F}} + \mathcal{E}_{\mathcal{M}} \mathcal{V}_{\mathcal{M}}$	8A+8C = 128C
= 60°27 GPa	
	$\frac{\sqrt{c}}{\sqrt{A}} = (\sqrt{2} - 1)$
16.10	
Ecl = 33.1 (NPa Vf = 0.3	= 0.414
$\Sigma_{C+} = 3.66$ $V_m = 0.7$	
9	
Sco = SmVm + SfV+	
33.1 = 0.7 Em + 0.3 Et	
£c+= Em £ f	
StVm + EmVt	
2 60 - 4 - 50	
3.66= Em Et	
0.72f +0.3Em	
4	
$=$ $\leq m \leq t$	
33.1	
To	

Subject: CH: 10	/ /
18.10 (b) 6=	uen
$(a) V_{3} = \mathcal{E} \mathcal{U}$	
$=500 \times (0.145)$	en
	6.8 x 10 ⁷
	The state of the s
	1.602 x 1019 x 7.6 x 1028
b) t = 5	0.005m2/Vs
$= 25 \times 10^{3}$ 18.1	
72.5 (a) $d=7$	mm L=45mm
$= 3.4 \times 10^{5}$	-mm
I= 0	
18-11 V= 20	
6 = 3.8 x 10 (2m)	
	1
$u = 0.0012 \text{m}^2 / \text{V.s}$ 6 =	<u> </u>
0) 6 = 0 e ll = 1	
1= 0	JA
ell = 1	$15 \times 10^{3} \times 0.25$ $24 \times (\frac{7 \times 10^{3}}{2})^{2}$
$= 3.8 \times 10^{4}$	24 x / 7x153/2
1.602 x10 x 0.0012	(2)
$= 1.97 \times 10^{29} \text{m}^3 = 1$	2.18
$= 3.8 \times 10^{7}$ $1.602 \times 10^{19} \times 0.0012$ $= 1.97 \times 10^{29} \text{ m}^{3}$	
(0)	L = L $6A$
(a) N = nNAp A	= 57 x 153
1 2 4 4 2 2 1 2 3 1 1 -	
$= \frac{1.3 \times 6.022 \times 10^{23} \times 10.5}{1.7 \times 10.5}$	12.18 x x (7x153)2
8.70	
$= 7.6 \times 10^{23} \text{m}^3$	- 121.6D
9	

Subject: $ \begin{array}{cccccccccccccccccccccccccccccccccc$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7	Subtect:	= (1) / /
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7		
V = (V) $I = 50$ $d = 2$ $G = IL$ VA $V = (V)$ A $V = (V)$	7		
V = (V) $I = 50$ $d = 2$ $G = IL$ VA $V = (V)$ A $V = (V)$	7	0 = 10m	by V=IR
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7		
$d = 2$ $d = 2$ $6 = \frac{1}{4}$ VA $= 0$ $d = \sqrt{4}$ $d = \sqrt{4}$ $= 0$ $d = \sqrt{4}$	7		1 = 0
$6 = \frac{1}{VA}$ $C = \frac{1}{A}$	7	I=5A	K
$6 = \frac{1}{VA}$ $C = \frac{1}{A}$	7		- (5)
$6 = \frac{\pm L}{VA}$ $= \boxed{3}$ $= \boxed{4}$ $= \boxed{4}$ $= \boxed{4}$ $= \boxed{3}$ $= $	7	d = 4	- 6
$6 = \frac{\pm L}{VA}$ $= \boxed{3}$ $= \boxed{4}$ $= \boxed{4}$ $= \boxed{4}$ $= \boxed{3}$ $= $	7		
$VA = \bigoplus_{X \in \mathbb{Z}} A$ $= \bigoplus_{X \in$	7	6 +1	T-T
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7	0= 11	(C) J = +
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7	VA	H
$d = \sqrt{\frac{4\pi L}{\pi V_G}}$ $= \boxed{3}$ $= \boxed{3}$ $d = 3 \text{ m}$ $P = 10P$ $L = \frac{2}{6H}$	7		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1		- 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1	d = 14IL	
$\mathcal{E} = \mathcal{V}$ $= \mathbf{U}$ $= U$	1	N TVG	1, 11-87
$= \underbrace{\text{(i)}} \qquad \qquad I$ $= $	To	W	
$ \begin{array}{c} $	1		<u>V</u> = 3
$ \begin{array}{c} B \cdot 3 \\ d = 3mm \\ P = 10D \\ l = 2 \end{array} $ $ \begin{array}{c} P = L \\ 6H \\ L = P6T \left(\frac{d}{2}\right)^2 \end{array} $ $ \begin{array}{c} B \cdot 5 \\ (a) d = 5mm \\ L = 5m \end{array} $	1		I
$B.3$ $d = 3mm$ $P = 10P$ $L = 2$ $L = R6\pi \left(\frac{d}{2}\right)^{2}$ $= $ $B.5$ $A = 5mm$ $L = 5m$	1		(5)
$d = 3mm$ $Q = 10)2$ $l = 2$ $P = L$ $6A$ $L = P6\pi \left(\frac{d}{2}\right)^{2}$ $= (3) d = 5mm$ $L = 5m$	0		= 9
$d = 3mm$ $Q = 10)2$ $l = 2$ $P = L$ $6A$ $L = P6\pi \left(\frac{d}{2}\right)^{2}$ $= (3) d = 5mm$ $L = 5m$	1	18.3	
$P = 10D$ $L = 2$ $P = L$ $6H$ $L = P6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	0		
$l = 2$ $P = L$ $6A$ $L = R6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	0	d = 5mm	
$l = 2$ $P = L$ $6A$ $L = R6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	0	Q = 10D	
$P = \frac{L}{6A}$ $L = P6 \pi \left(\frac{d}{2}\right)^{2}$ $= \boxed{3}$ 18.5 $\boxed{4} = 5m$ $L = 5m$	9	0 2	
$L = R6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	9	<u> </u>	
$L = R6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	9		
$L = R6T \left(\frac{d}{2}\right)^{2}$ $= 3$ 18.5 $(a) d = 5mm$ $L = 5m$	90	0 - 1	
= 3 18.5 $0) d = 5mm$ $L = 5m$	9		
= 3 18.5 $0) d = 5mm$ $L = 5m$	9	6H	
= 3 18.5 $0) d = 5mm$ $L = 5m$	9	L- RGT (d)	
18.5 (a) $d = 5mm$ $L = 5m$	4	[2]	
18.5 (a) $d = 5mm$ $L = 5m$	4		
18.5 (a) $d = 5mm$ $L = 5m$	7	= (1)	
$ \begin{array}{c} 18.5 \\ (a) d = 5mm \\ \underline{L} = 5m \end{array} $	7		
$ \begin{array}{c} 18.5 \\ (a) d = 5mm \\ \underline{L} = 5m \end{array} $	7		
(a) d = 5mm $L = 5m$	7	18.5	
L=5m	7		
	7		
$Q = \frac{L}{6A}$	1	L=5m	
$V = \frac{L}{6A}$	do		
ОП	To	$V = \frac{L}{CO}$	
	1	ОП	

$$0 = 5m$$

 $6 = 3.8 \times 10^{7}$

(a)
$$6 = L$$

$$J = I$$

