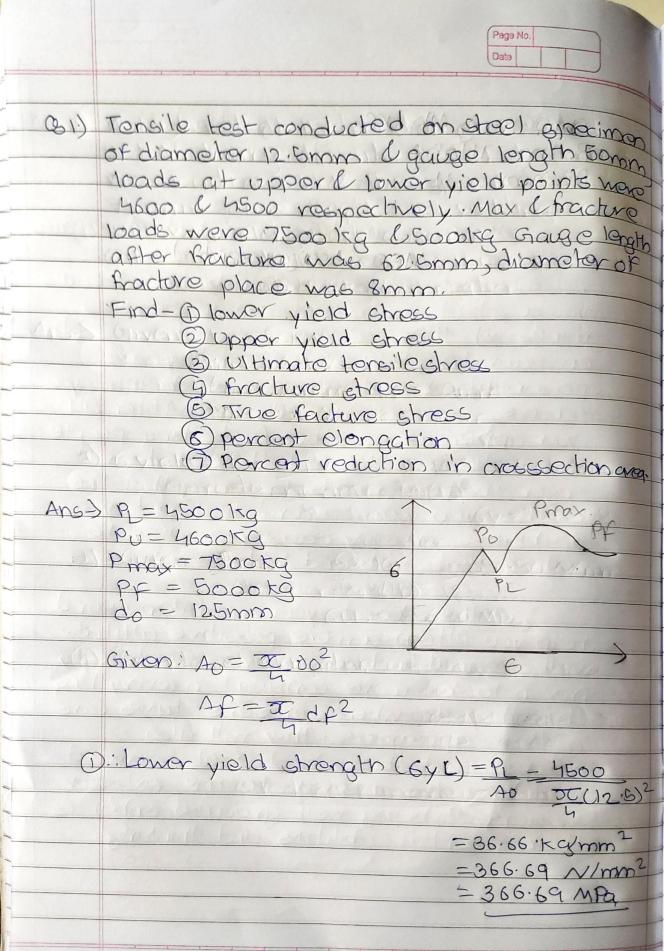
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	Date Date
1	upper yield stress (640) = Pu = 4600 40 00/4(12.5)2
50	+0, oc/4(12.5)2
	= 37.48 Kg/mm2
100	=374.8 N/mm²
	=374.8 N/10 m2
1	7 74.4×106 N/m2
	640=374.8MP
(3)	Ultimate tensile stress 660TO = Pronx - 7500
9	A0 35(12.5)
	= 61.11 kg/mm <sup>2</sup>
	10000 1000 100 100 100 100 100 100 100
- 00	a) 6 yield = Py Py Whyto bulleton
9	Fracture Stress-(60fts) = Profix - 75000 Ao Ty(12:5)2
AM	40 th (12.5) L
	= 61.40.74 kg/mm/s
- 500	MADE 1801 6P=487.4MPa
(3)	
9)	True facture stress (6 ptue) = Pt _ 5000 AF - Xy(8)2
	$= 99.47 \times 1000$
	6xx10 = 994.7-MPa
	Grand de la company de la comp
(6)	Percent elongation = (62.5-50) x 1002
	-25°10
(7)	percent reduction in crossoction area.
	$= \frac{(A_0 - A_0)}{A_0} \times \frac{39.040}{0}$
	740

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Date			
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(32) A test rod of 15mm diameter failed at sorry driving tensile test but reached max load of 63 km. The specimen had 75 mm gauge length and vielding at 45 mg and was elongated to somm. calculate a yield stress b- ultimate tensilo Stross c.º/o Elongation.

Ans-> Given - Pp=Sokwto stoned stoned so Pmax = 63kN

10 = 75 mm; Lf = 80 mm 10 110 Py = 45kN, 20 = 15mm

a)  $6 \text{ yield} = Py - Py - 45 \times 10^3 - 254.64 \text{ Mmm}^2$ A  $6 \text{ yield} = Py - Py - 45 \times 10^3 - 254.64 \text{ Mmm}^2$ b)  $6 \text{ yield} = P \text{ yield} = P \text{ yield} = 63 \times 10^3 - 356.50 \text{ Mmm}^2$ A  $6 \text{ yield} = P \text{ yield} = 63 \times 10^3 - 356.50 \text{ Mmm}^2$ 

(2) Percent yeartion in acestalion laved

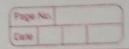
2002 +9=19UMA 6UE = 356.60 MPa BUA (3)

Percentage elongation = 4-10 x 100

( AU-16 1x100 = 54.640)

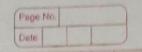
= 20-75 × 100 | = 20-75 × 100 | = 20-75 × 100 |

= 6.67°/0



0.3)	A 20 cm long vod w/a diameter of o.30m 1/6 loaded with 400N. If diameter revolves to 0.27cm. find-& Engineering shows @ True stress
	MANAGER CONTRACTOR
Ans>	L= 4000 N
	in him the second
0	Engineering stess - load - 4000 - 4000 oniginal avea typical?
	= 565.864 W/mm
	6eng=565.88MPa
60	True stress = 10ad = 4000 nervoiva stri(de)2
	nervoivea stricte
	- 698.622 Nmm
	= 698.622×10 Mm
	6tra= 698 622MPa
	TYDE FACTORE BIVE BOTH AND
034	The tensile test specimen of mild steeler
	8 mm diameter & 40 mm gaige length mes
5011	Logical with following result
4	Linex = 3212kg, Ly = 1750kg, A (=50mm) dr
	= 5.4mm.
	SENIA - MONINA 2001 ON
	Prnd- Dutsin kg/mm <sup>2</sup> Visin kg/mm <sup>2</sup>
	ys in kg/mm
	(3) 0/0 elongation. (5) 0/0 reduction in area.
	(b) To reduction in area.

Page No.	
	1
Ans) do= 8mm, dr=5.4mm	A. 7
Lo = 40 mm se= 50mm	VI
lmax = 3212kg 5 Ly = 1750kg	
The second secon	
DUTS= Lmax = 3712: Ao = 744 (do)	
UTS=963.90 kg/mm²	1
013=03.90 19 mm	0
(2) 4.5 = 24 = 1750 = 34.815 mm	7 (
A 6) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
59M38.202=246=34.815kg/mm2.	
C) (C) AV YOU	
3 0/0 elongation = 1/2 100	7: 0
Call Marion Marion	/ (8
001 x 02 = - 698622 NATON	
TOWN OF THE STATE	
159 M 550 2P2 010 elongation = 125%	
1 (9) 19/0 Grovag 10 v = 1 (-1 0 v c	
(5) 0/0 reduction in over= (An-10)	2
(G) 6/0 veduction in avea = (Ao-AF) x10	
76 mmod VA 02000 1 1000 2000 2000 2000 2000 2000	X
10 mmod ) A contact the day	11/2
Olo rad has 1 and 51 1 and	
% /o reduction in avea = 54.43%	0
Towns Halm Kalmint	1
(3) e la elangaban la	
(a) elo reduction in area.	



25)	Following data was obtained during tensite test conducted on mild steel specimen
2)	test conducted on mild steel specimen
	42mm in diameter le 210 mm long.
	CONTA (BOLX COCK)
	11 with 45KN= 0:404 mm
	11 = 163KN, 1 max = 245KN, Lp=250mm
	find - @ Young's modulus
	@ Yiek Point
	3 ultimate stress
	(5) Percentage elongation.
	· discondition ()
Ars-	10=210 rom, LF=250rom, ALat45KN=0.494mm
	Ly = 163KM 1 max = 2451×N, do=42mm.
	= 1.16x3x 163x 163x 102x
(1	1 magamadakas alla
	stress 0 = 2 - 40 + 0.0289 KN/mm²  A Tydo² = 6.0289 x 106 KN/m²  = 3.00 104 KN/m²
	A tydo2 = 0.0289 × 106 × N/m2
	59M6200 = 289 × 104 KN/m2
	The state of the s
	strain = 1 - 0.404 - 1.92 x 10-3
	001, 4971 2100000000000000000000000000000000000
9.19	
	youngs modulus & = stress - 2.89×109 Strain 192×10-3
15	Popla continuo para a la
	youngs - 1.505 x 10' KN/m
	madulus
	End-William regimen
	Company Company Company
	(3) 10 6 6 6 C C C C C C C C C C C C C C C C
	1 10 Starteduction of area

