B.E. VI SEM, FIRST INTERNAL (CIE-I), JUNE- 2024 DEPARTMENT OF MECHANICAL ENGINEERING

TIME: 1:00 HOUR _21_/06/2024FN	MAXIMUM MARKS: 20	Date :
PART-A	ANSWER ALL OUESTIONS	MARKS: 3 X 2 =

SUBJECT: MOM

MARKS: 2 X 7 =

Q.No.	Questions	BTL	CO(S)	PO (S)	PSO
1.	Define stress ?explain types of stress	1	1	1	-
2.	State Hooke's Law.	1	1	1	-
3.	what is the relation between shear force and bending		2	1	-

PART-B

SUBJECT CODE :PC231ME

ANSWER ANY TWO QUESTIONS

Q.No. Questions **BTL** CO(S) **PO (S) PSO** 5 1 2 1 1 A Tensile test was conduction on a mild steel bar. The following data obtained from the test. Diameter of the steel bar = 3cm, Gauge length of the bar = 20cm, Load of Elastic limit = 250KN,Extension at a load 150KN = 0.21mm,Maximum load = 380KN,Total extension = 60mm, Diameter of the rod at the failure = 2.25, Determine: 1) Young's modulus. 2) The stress at

Elastic limit. 3) The percentage elongation. 4) The						
5	1	2	1			
5	2	2	1			
	5	5 1	5 1 2			