Maulana Azad National Institute of Technology, Bhopal Department of Civil Engineering Mid Term Exam-Nov. 2024

Class: B.Tech, I Semester

Class: Section E Subject code: CE24103

Subject: Engineering Mechanics

Max. Marks: 20

Total Questions: 03

Note: All questions are compulsory. Assume any missing data suitably.

.No.		Marks
. 10.	Draw the deal Questions Questions for the given simply	(06)
•	Draw the shear force and bending moment diagram for the given simply	
1	supported beam. GC is rigid member of the	
, -1	2kN 3kN/m	
* * *	\longrightarrow G	
, ,	1m s ² 2kN/m	
	A^{\uparrow} $C \cup D$ E	
	1m 1m 2m 1.5m	
2.	Determine the magnitude and nature of the forces in members 1(ID), 2	(08)
	(IF) and 3(GF) of the truss shown below. Due to action of roller of weight	
	1000N. The cable is parallel to AC.	
	100014. The cable is parallel to Ac.	
	cable	•
	T/ H	
	1000 N	
	3m 1	
	2 2	-
	4) A	
	PBG. F. E TTT	
* ;	Int In tim tem	
	The state of the s	(0.0)
3.	For given rectangle, find M.I. about diagonal AC.	(06)
	2m	
	A · · · B	
	2	
	\	
	3m	
		*
		jules at
		1
6	D C	
		1
		_