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Best Luck	significant values at respective points on the beam.	Draw SFD and BMD for the beam as shown in fig. and indicate all the	_	State and derive relation between shear force and bending moment	_	Compute normal and shere stress on failure plane if vertical and horizontal	induced when pull of 80 kN is applied I) gradually ii)suddenly also find instantaneous elogation. Take E=200 Gpa Comment on result.	A steel rod 40mm in diameter is 2.5 m long. Find the maximum stress	Explain the Stress Strain Curve for brittle material	Solve Any TWO of the following.	6. Define Principal strain	5. Define Proof resilience	4. Define Core of section	3. Define Longitudinal Stain	2. Define Poisson's ratio	1. Define Stress	Attempt following Questions (6 Marks)	QUESTIONS	Instructions to the Students: 1. Assume suitable data wherever necessary and State it clearly. 2. Figures to Right Indicate full Marks.	Max Marks: 20 Date: 13th March 2019 Time: 3 pm to 4 pm Duration: 1 Hour	Subject Name: Strength of Material (SOM)	Course : B. Tech in MECHANICAL ENGINEERING	Mid Semester Examination - Oct 2019	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
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