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Subject Name: Strength of Materials

Course : B. Tech in GRAID ENGINEERING

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination - Det 2018 - Matth 20 19

Max Marks: 20

Date: 15 March 2019

Time: 3 pm to 4 pm Duration: 1 Hour Subject Code: BTESC405 Semester: IV

Instructions to the Students:

Assume suitable data wherever necessary and State it clearly.
Figures to Right Indicate full Marks.

QUESTIONS

Marks

Q. 1 Attempt following Questions 4. Define Bending Moment 5. Explain determinant structure with an example 1. Define Stress 2. Define Volumetric Strain 3. Define Shear Force

- ဥ Explain Shear Deformation
- Solve ANY TWO of the following
- (A) Enlist different types of trusses on the basis of their span. $^{\oplus}$
- Prove that Volumetric Strain for Rectangular Bar = Strain of length + Strain of Depth + A Briass bar having a cross sectional area of 1000 mm² is subjected to axial forces forces as Strain of width.
- At Point D, 10 kN load is acting towards Left) shown in figure. Find the Total Change in Length of the Bar. Take $E=1.05\times 10^3 N/mm^2$ N4 05 NN 08 9

Q. 3 Solve ANY ONE of the following.

- (A) Explain different Methods of Analysis of Truss
- € Draw the Shear Force Diagram and Bending Moment for the Beam ABC. Support A and Support B are Roller Supports.



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