

Section 1 Strength of Materials I (Paper)

Subject is Mechanical Engineering

SEM

Year

22341

Course Title

Strength of Materials I

Code

22341

Course Title

Reference

- 1. All questions are compulsory.
- 2. Short-answer questions will be asked in the examination.
- 3. Diagrams wherever necessary.
- 4. Answer within the limit.
- 5. Short-answer questions will be asked in the examination.
- 6. The marks for each question are given in the margin.
- 7. The marks for each question are given in the margin.
- 8. The marks for each question are given in the margin.

PDF

Q.1. Explain the following terms:

(10 Marks)

- 1. Stress and strain.
- 2. Elastic limit.
- 3. Yield point.
- 4. Ultimate tensile strength.
- 5. Breaking strength.
- 6. Factor of safety.
- 7. Modulus of elasticity.
- 8. Poisson's ratio.
- 9. Thermal stress.
- 10. Thermal strain.

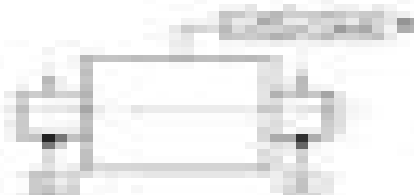
Q.2. A bar of length 1 m and cross-sectional area 100 mm² is subjected to a tensile load of 10 kN. Calculate the elongation of the bar.

Q.3. A bar of length 1 m and cross-sectional area 100 mm² is subjected to a tensile load of 10 kN. Calculate the elongation of the bar.



Fig. 1

Q.4. A bar of length 1 m and cross-sectional area 100 mm² is subjected to a tensile load of 10 kN. Calculate the elongation of the bar.



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